



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DNR209057

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 FRANK WHITTAKER
 304-558-2316

VENDOR

*709051336 304-367-1417
 OMNI ASSOCIATES ARCHITECTS INC
 1543 FAIRMONT AVENUE #201
 FAIRMONT WV 26554

SHIP TO

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION
 BUILDING 3, ROOM 719
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
				<p>RECEIVED 2008 DEC -9 A 10:38 PURCHASING DIVISION STATE OF WV</p>		
				<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p>		
				<p>EXPRESSION OF INTEREST</p>		
				<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGFNCY, THE WEST VIRGINIA DIVISION IF NATURAL RESOURCES, SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR LODGE EXPANSION AND PARK IMPROVEMENTS AT CACAPON RESORT STATE PARK LOCATED IN BERKELEY SPRINGS WV, PER THE ATTACHED SPECIFICATIONS.</p>		
				<p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIS EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS NOVEMBER 21, 2008 AT 3:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.</p>		
				<p>QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING DATE AND TIME.</p>		
				<p>EXHIBIT 10</p>		
				<p>ADDENDUM ACKNOWLEDGEMENT</p>		
				<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO</p>		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
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**Request for
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PAGE
2

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FRANK WHITTAKER
304-558-2316

VENDOR

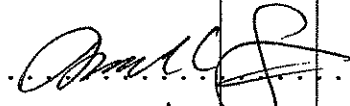
*709051336 304-367-1417
 OMNI ASSOCIATES ARCHITECTS INC
 1543 FAIRMONT AVENUE #201
 FAIRMONT WV 26554

SHIP TO

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.		
				ADDENDUM NOS. :		
✓	NO. 1				
	NO. 2				
	NO. 3				
	NO. 4				
	NO. 5				
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.					
	VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.					
						SIGNATURE
	OMNI ASSOCIATES-ARCHITECTS					COMPANY
	12/8/08					DATE
	REV. 11/96					
	BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATI-					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



Letter
of
Transmittal

Date: **December 8, 2008** Omni Project # Project Name:
Cacapon Resort State Park

To:
WV Purchasing Division
Attn: Frank Whittaker - 44
2019 Washington St. E.
Charleston, WV 25305-0130

For Your...
 Use Approval Record Bid Due 12/9/2008

The Following ...
 Drawings Change Order Specifications
 Contract Application for Payment Electronic Media (Disk/ CD/ Other)
 Shop Drawings Proposal <specify other>

Enclosures

Ref. #	Total Each	Description
1	3	Proposals (1 original and 2 copies)
2	1	Purchasing Affidavit
3	1	Addendum Acknowledgment
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Remarks:

If enclosures are not as noted, please inform us immediately.

The Omni Associates – Architects, Inc.
1543 Fairmont Avenue, Suite 201
Fairmont, West Virginia 26554-2175

Issued By:
Angela Hammond (Voice) 304.367.1417

cc:

The Omni Associates – Architects
1543 Fairmont Avenue Suite 201
Fairmont, WV 26554-2175
(Voice) 304.367.1417
(Facsimile) 304.367.1418

www.omniassociates.com

Established 1980

Member of
The American Institute of
Architects

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: OMNI ASSOCIATES - ARCHITECTS, INC.

Authorized Signature:  Date: 12/8/08



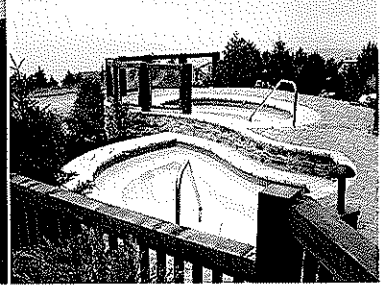
THE OMNI ASSOCIATES
Architects
www.omniassociates.com



Firm Overview

Cacapon Resort State Park Lodge Expansion and Park Improvements

RFO# DNR209057
December 9, 2008

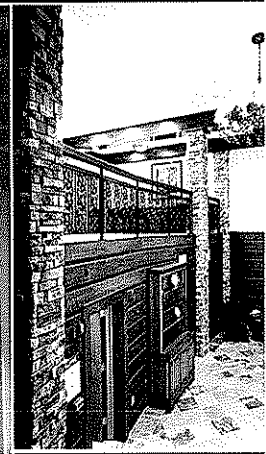


"You are truly the most responsive, friendly, and personable firm I have come across recently - many thanks and kudos to you for establishing such a great dynamic within your work environment."

Katie Leavy
HGTV (Home & Garden TV) TV Personality
Capital Design



www.omniassociates.com email: info@omniassociates.com



December 5, 2008

WV Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

Re: Proposal for Architectural and Engineering Services
Buyer: 44 – Frank Whittaker
Req#: DNR209057
Opening Date: 12/9/2008
Opening Time: 1:30 PM

Dear Mr. Whittaker:

The Omni Associates-Architects is pleased to submit our Proposal to the State of West Virginia Department of Administration for architectural and engineering design services for a lodge expansion and park improvements at **Cacapon Resort State Park**. It is always a pleasure to work on special projects within our State. We recognize the importance of this project to the State of West Virginia, and we would enjoy the opportunity to help you realize your project on time and within budget.

The design team you select will be one that will work with you over the upcoming years. I am pleased to include **Terradon Corporation, Allegheny Design Services, and Tower Engineering** in our specialized team. Omni has collaborated with these consultants on a number of projects in the past. We are currently working with Terradon and Tower Engineering on the lodge expansion at **Twin Falls Resort State Park**. The project includes additional guest rooms, an indoor pool, hot tub, and fitness center, renovations of the lobby and conference room, parking expansion, and an outdoor courtyard.

Because of the specific nature of your waste water needs, we have also included **Waste Water Management** as part of design team. Our history with WWM dates back to the early 1980s and includes notable projects such as Silver Creek Resort Ski Lodge and Emerald Isle Retirement Community. Their particular expertise and vast experience will be a valuable resource in ensuring the success of your project.

As the lead designer, we present a proven team that listens, produces a quality product, and provides professionalism and attention to detail from the first sketch to the completed project. We are confident that our extensive project experience together with our innovative design concepts will be an invaluable benefit to **Cacapon Resort**. As Omni's Administrative Principal, I will guide the team and serve as the point-of-contact throughout the project's duration. We can offer your project the following advantages:

- Our extensive and diverse experience in resort and recreation design clearly separates us from our competitors.
- Omni enjoys a repeat client rate of more than 90% - a source of considerable pride.
- Omni's incomparable experience with Building Information Modeling (BIM) makes us a leader in collaborative design solutions. BIM 3D modeling software streamlines the design process and allows the design team to anticipate conflicts, reducing the likelihood of costly change orders. Post-construction, an accurate building model can assist in cost and quantities estimating, energy analysis and building management.

Thank you for giving us the opportunity to present our credentials. We would enjoy the opportunity to personally meet with you and the balance of the selection committee and discuss our professional experience in greater detail as well as demonstrate how we utilize BIM to greatly expedite project delivery.

Best regards,
THE OMNI ASSOCIATES - ARCHITECTS



Richard T. Forren, AIA, NCARB
Principal

**Cacapon Resort State Park:
Lodge Expansion and Park Improvements**

Cacapon Resort State Park

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Proposal

The Omni Associates – Architects, Inc.
1543 Fairmont Avenue, Suite 201
Fairmont, West Virginia 26554

Voice.304.367.1417
Facsimile.304.367.1418

Email: dave@omniassociates.com
World Wide Web: www.omniassociates.com

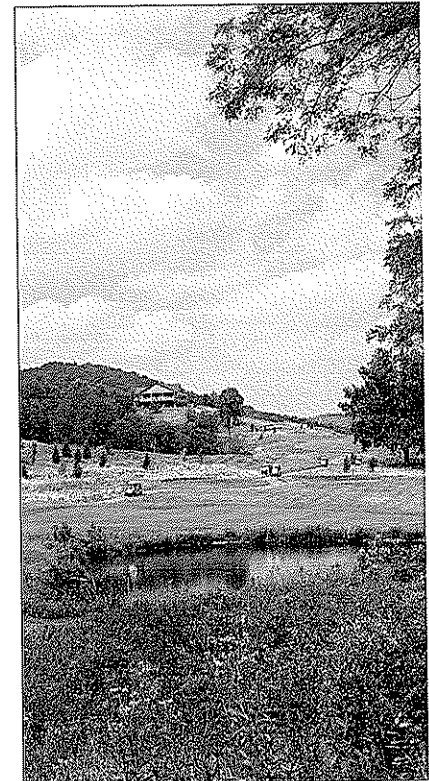
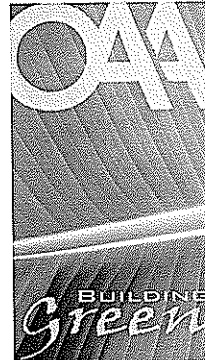


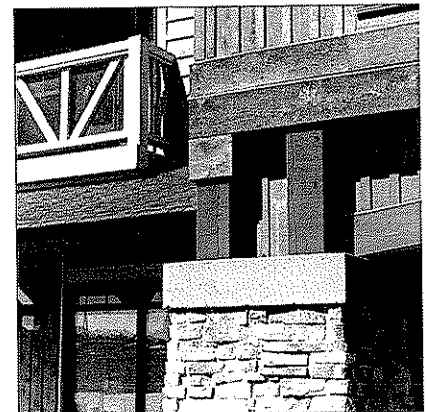
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**Cacapon Resort State Park:
Lodge Expansion and Park Improvements**

Project Understanding, Approach and Plan

West Virginia
Department of Administration
Purchasing Division

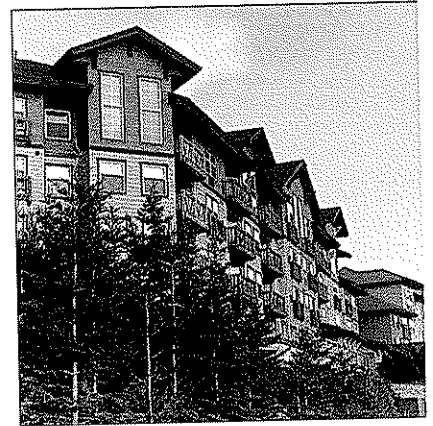
Buyer: Frank Whittaker—44

RFQ No.: DNR209057

The design of any great facility is derived from the aspirations, goals and limiting restraints that are involved in the evolution of the project. Cacapon Resort State Park has a need to employ the latest in building technologies while integrating new space with the existing facility. The resolution of these forces involves a customized design and approach to the context and program of this building.

The Omni Associates – Architects, Inc. has had a successful history of designing intimately with each client and working out collaborative solutions that meet the goals of the project. Your project shall be a unique design that derives from strategic planning recognizing the site context along with the design input of all the participants. The process is integral and requires close communication. To that end, we have implemented a feed-back process for every stage of a project to ensure that the program needs of the client are met and that the Contract Documents reflect the intent as well as the content of the design. Owners' representatives are not only present but heavily involved with all project meetings so that any decisions to confirm or change an owner's program needs can be addressed directly during each step of construction.

The Omni Associates - Architects provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient management to provide on-time deliverables and completion. We are a proven team that listens to our clients, produces a quality product, and provides professionalism and attention to detail – from the first sketch to the completed project. These are qualities that appeal to



our clients and draw them back for future projects, which results in lasting relationships. That's why we enjoy a repeat client rate of more than 90% - a source of considerable pride. We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

Technical Competencies

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

The Omni Associates – Architects, Inc. is an award-winning architectural firm located in Fairmont, West Virginia. Since its inception in 1980, OMNI has earned recognition as a specialist in the programming, planning, and design of a wide variety of facilities including healthcare facilities, commercial offices, high technology centers, education facilities, and military facilities, many of which were integrated into existing structures and required flexible designs that allowed for modification as needs change.

Omni's professional staff is comprised of dedicated, experienced, and creative individuals. Our skilled team includes **4 registered architects**, intern architects, computer-aided design specialists, a full-time in-house artist, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

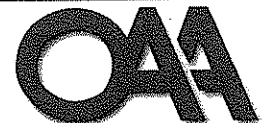
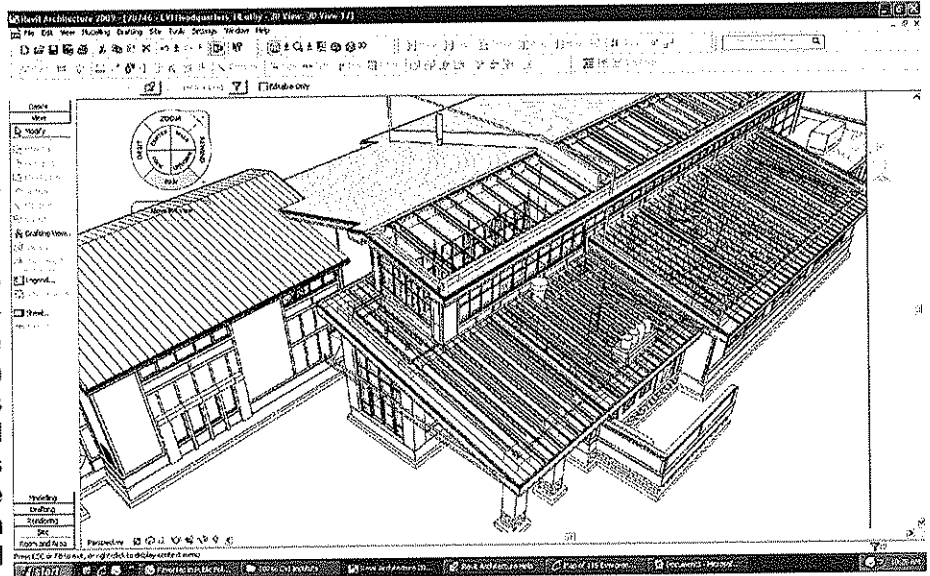
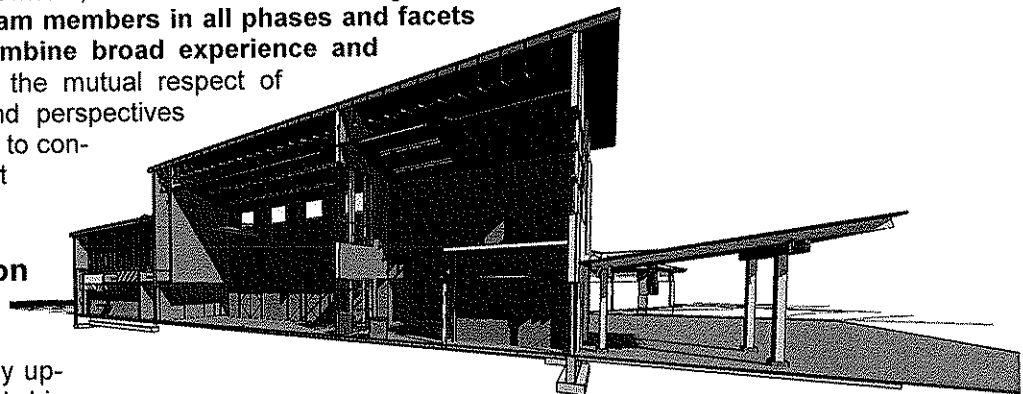
By constructing the building in the virtual world first, conflicts can be anticipated and averted.

In reality, the OMNI project team goes beyond our in-house staff to include consultants, client representatives, owners, and a construction manager, as required. **The involvement of project team members in all phases and facets of a project allows us to combine broad experience and personal accountability.** It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud.

BIM: Building Information Modeling

Omni is committed to continually upgrading existing technology and driving the evolution of design tools. This commitment springs from the firm belief that the responsible use of technology facilitates innovative design, results in economic benefits for our clients, and assists in efficient communication with clients and consultants.

Building Information Modeling (BIM) involves creating a building in the virtual world before constructing it in the "real" world and allows the design team to anticipate conflicts and objections before they arise. **We have found that this eliminates many issues which could result in project change orders or Requests For Information from the contractor.** Also, the model can be shared between all disciplines as the design progresses. This allows early input from all of the design professionals involved, resulting in efficient designs. With a virtual model of the building, clients can clearly see the design intent as the project progresses. Design options can be explored with greater ease than ever before. An accurate building model can also assist in such things as cost and quantities estimating, energy analysis and building management – to name just a few.



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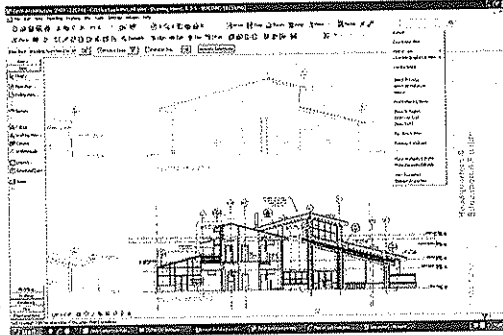
Cacapon Resort State Park: Lodge Expansion and Park Improvements

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Obviously, using the latest computer software does not guarantee good design. Good design is built upon having a complete understanding of the client's needs and the knowledge & experience to create a space which addresses those needs in an elegant and practical manner. We see BIM as an advanced tool in making that goal a reality for each project that we undertake.



Conformance with Applicable Regulations

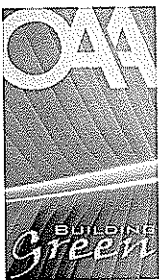
Building and Life Safety

West Virginia codes have a major influence on the design of any building, and having a strong interactive relationship with the WV State Fire Marshal (WVSFM) and other authorities is essential. Omni has made it a practice to have face-to-face reviews with the WVSFM, which provide valuable feedback and result in many hours saved during design and production. Since a practical understanding of the law is applied early on, the owner can be better assured that their program needs won't suffer major changes and time delays later on. Furthermore, the Fire Marshal's field inspections and approvals are better expedited since the total design layout and life safety systems are understood because they were part of the design implementation.



LEED™ (Leadership in Energy and Environmental Design)

The LEED Green Building Rating System provides standards for environmentally sustainable construction. LEED Accredited Professionals demonstrate a thorough understanding of green building practices and principles and familiarity with LEED requirements, resources, and processes.



Omni is currently in the process of designing a new headquarters for the Canaan Valley Institute (CVI) near Davis, West Virginia. In accordance with CVI's mission, the design team is planning a "green" building that will demonstrate environmentally friendly systems to visitors. The team is planning to utilize a number of "green" technologies and anticipates Silver LEED™ Project Certification.

Omni has also recently been selected as the Architect for Allegheny Energy's new Transmission Control Center in Fairmont, West Virginia, which will incorporate LEED design features.



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

Project Team Qualifications

Primary Contact:

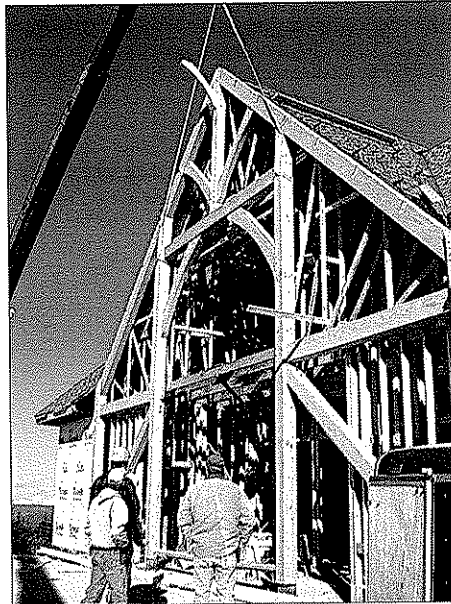
Richard T. Forren will be responsible for the project and have full authority to execute a binding contract on behalf of Omni Associates.

Richard T. Forren AIA, NCARB

The Omni Associates - Architects, Inc.
1543 Fairmont Avenue - Suite 201
Fairmont, WV 26554

Voice: 304.367.1417

Email: Rforren@omniassociates.com



West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

"...this (West Virginia High Technology Consortium) is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality..."

Robert C. Byrd
United States Senate

Project Team Introduction

The project team that you select will be one that will work with you over the upcoming years. It is our endeavor to continue our relationship with Cacapon Resort State Park and users. Our dedicated and experienced staff brings a unique level of ingenuity to every project. The Omni Associates – Architects carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client. Omni has created a team of professionals who provide services for the specific needs of this project.

It is these sensitivities that have dictated the creation of this team to include Omni Associates - Architects, Terradon Corporation, Tower Engineering, Allegheny Design Services and Waste Water Management, Inc.

In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy that a principal remains with the project from commencement to completion. Richard T. Forren AIA, NCARB, shall serve as principal in charge. The unique opportunity that is available to you is that Omni works "hands-on" with the stakeholders of a project and has a very fluid approach to design and documentation. The advantage is that contact is immediate. This level of communication is not achieved by long-distance communications and formal meetings. Omni has a history of providing that experience to our clients. Fairmont State University, the City of Fairmont, WVU Hospitals, Mylan Pharmaceuticals and The West Virginia High Technology Consortium Foundation have selected Omni and its consultants for numerous projects and have benefited from their accessibility and "hands-on" approach. The ability to have a local connection with our design team will be a positive coalition.



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

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Department of Administration
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Buyer: Frank Whittaker—44

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Qualifications and Experience of Key Personnel

The following is an introduction to our proposed design team. Resumes for key personnel are provided at the end of this proposal.

The Omni Associates – Architects, Inc.

Omni Associates will serve as the lead firm and coordinator of architectural and engineering services for Cacapon Resort State Park. Omni has extensive experience with the planning, design, and construction administration of recreational and resort projects. We believe that our variety of work, which includes additions and renovations as well as new facilities, sets us apart as the best qualified architectural firm for your project.

Richard T. Forren AIA, NCARB—Project Architect

As a Principal-in-Charge and Project Architect, Mr. Forren's primary responsibility is to develop the overall concept of design by performing technical tasks which include: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection; Preparation of bidding documents and material specifications; Project management and Construction administration. These tasks are performed for a wide range of commercial projects that include master planning, land development, building construction and tenant build-out. Project occupancy types include health care, business, recreational, educational, religious, municipal and military construction (MILCON) with single project construction budgets in excess of \$35 million.

Currently, Mr. Forren is serving as Project Architect for a 135,000 square feet expansion of Twin Falls Resort. The project includes the addition of 30 guest rooms, new guest services and main lobby, and an indoor pool and courtyard. Mr. Forren is also Project Architect for Volcano Island Resort, a new hotel, conference center, and indoor water park in Fairmont, West Virginia estimated at \$87 Million and 415,000 square feet.



As a West Virginia-based firm, we understand that our success is based on our commitment to being responsive.



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

West Virginia
Department of Administration
Purchasing Division

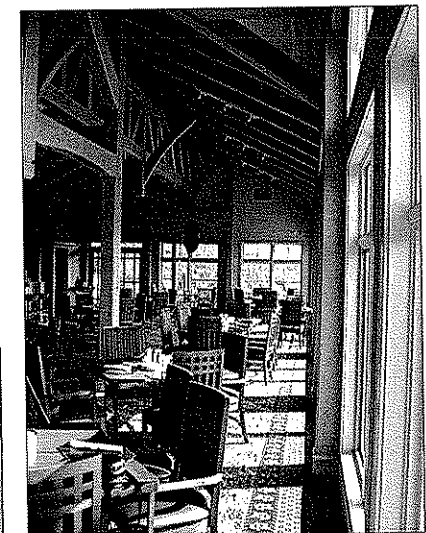
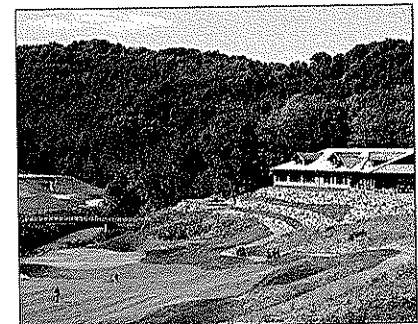
Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Terradon Corporation

Terradon is regarded as one of the region's leading land and infrastructure planning and design firms. The firm has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service. The company was formed in 1989, and its staff includes engineers, landscape architects, surveyors, planners, real estate specialists, environmental scientists, designers, and technicians. Terradon offers a wide range of engineering and environmental services and is particularly suited to land and infrastructure design and development in the mountainous areas of West Virginia.

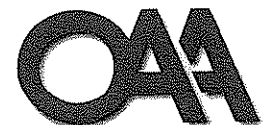
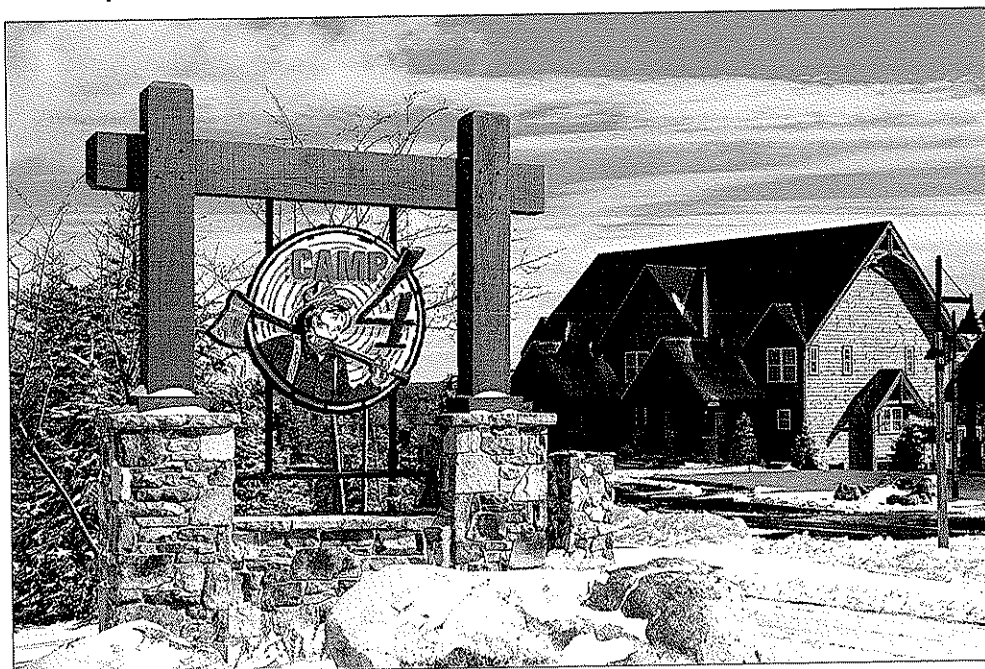
Harvey "Bud" McCallister, Jr., PE—Senior Civil Engineer
Gregory D. Fox, ASLA—Landscape Architect
John W. James, PE—Senior Geotechnical Engineer
Teresa A. Schuller, LRS—Environmental Manager



Tower Engineering

Tower has been providing innovative mechanical and electrical engineering solutions and unparalleled client service since 1931. Tower Engineering's highly-trained staff of project managers, designers, and technical support personnel utilizes state-of-the-art computer software programs for the design of lighting, electrical power and mechanical systems. Their experience includes numerous projects that include medium voltage distribution upgrades. Electrical power analysis capabilities include fault current, voltage drop and arc-flash studies. Lighting analysis includes point-by-point calculations, exterior lighting analysis, and life cycle cost comparisons. Mechanical analysis includes energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water piping design, and ductwork design.

James N. Kosinski, PE—Mechanical Engineer
T. Steffanie Bako, PE—Electrical Engineer
Christopher W. Clark, PE—Plumbing & Fire Protection Engineer



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Allegheny Design Services

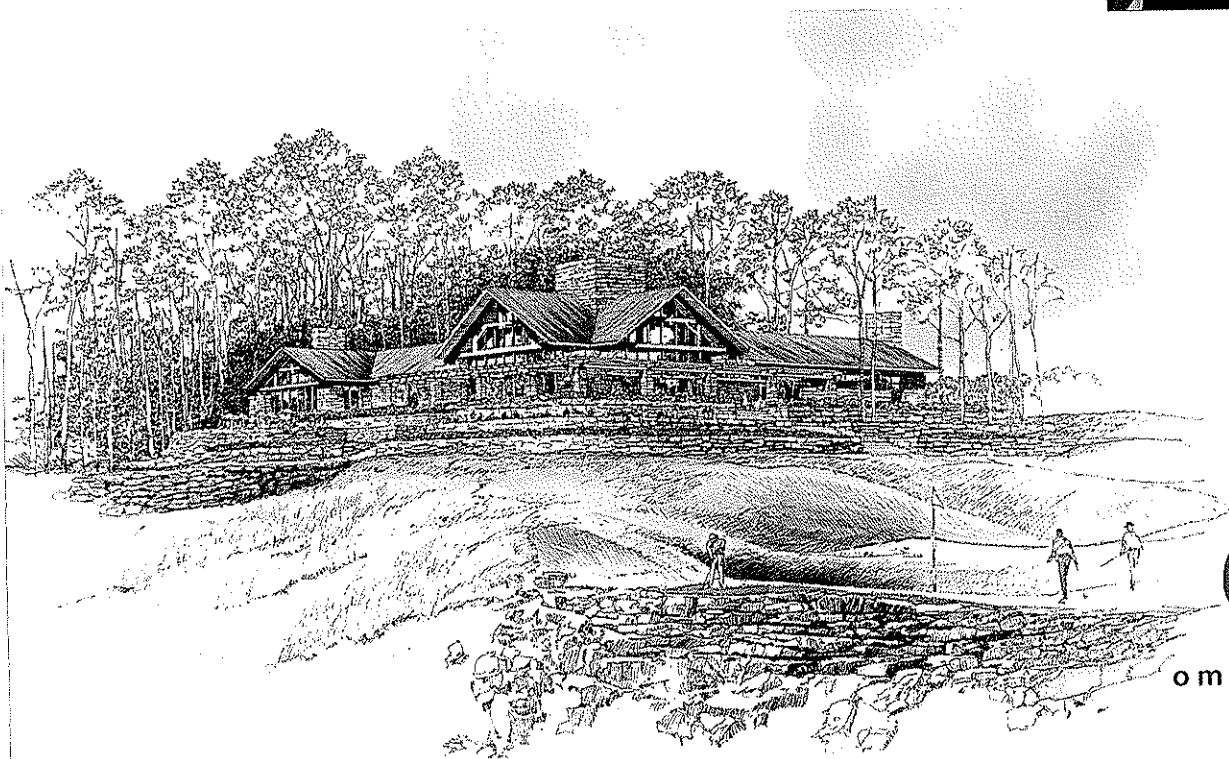
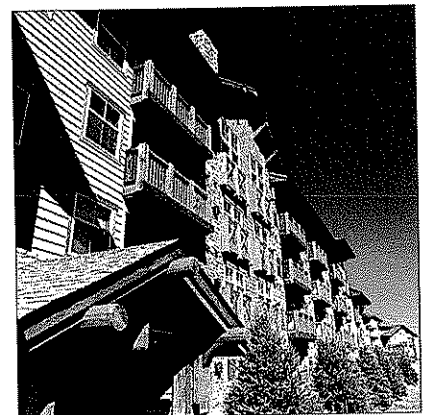
Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis. With over 25 years of experience, ADS provides all phases necessary for the successful completion of a building project from schematic design studies to construction administration. ADS currently utilizes the latest engineering design and drafting software for the development of project work. ADS consistently delivers projects up to \$25 million in construction value. Building systems delivered by ADS include structural steel, reinforced concrete, precast concrete, and structural timber.

David R. Simpson, PE—Structural Engineer

Waste Water Management, Inc.

Waste Water Management is nationally recognized for its expertise in the analysis and design of complex hydraulic systems, industrial wastewater process evaluation, and treatment systems. WWM provides engineering, consulting, and design services throughout the mid-Atlantic region of the United States for all types of water and wastewater system needs including operation and maintenance performance assessments, asset management, facility upgrades, new utility development, financial planning, grant and loan management and environmental permitting. WWM is internationally recognized for its expertise in the fields of environmental policy development, industrial waste management and regionalization, waste minimization, and the application of appropriate technologies.

David J. Rigby, PE—President
Michael Rossi, PE—Project Manager
David Hanna, PE—Affiliated Consultant



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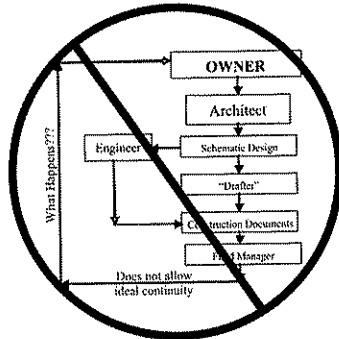
**Cacapon Resort State Park:
Lodge Expansion and Park Improvements**

West Virginia
Department of Administration
Purchasing Division

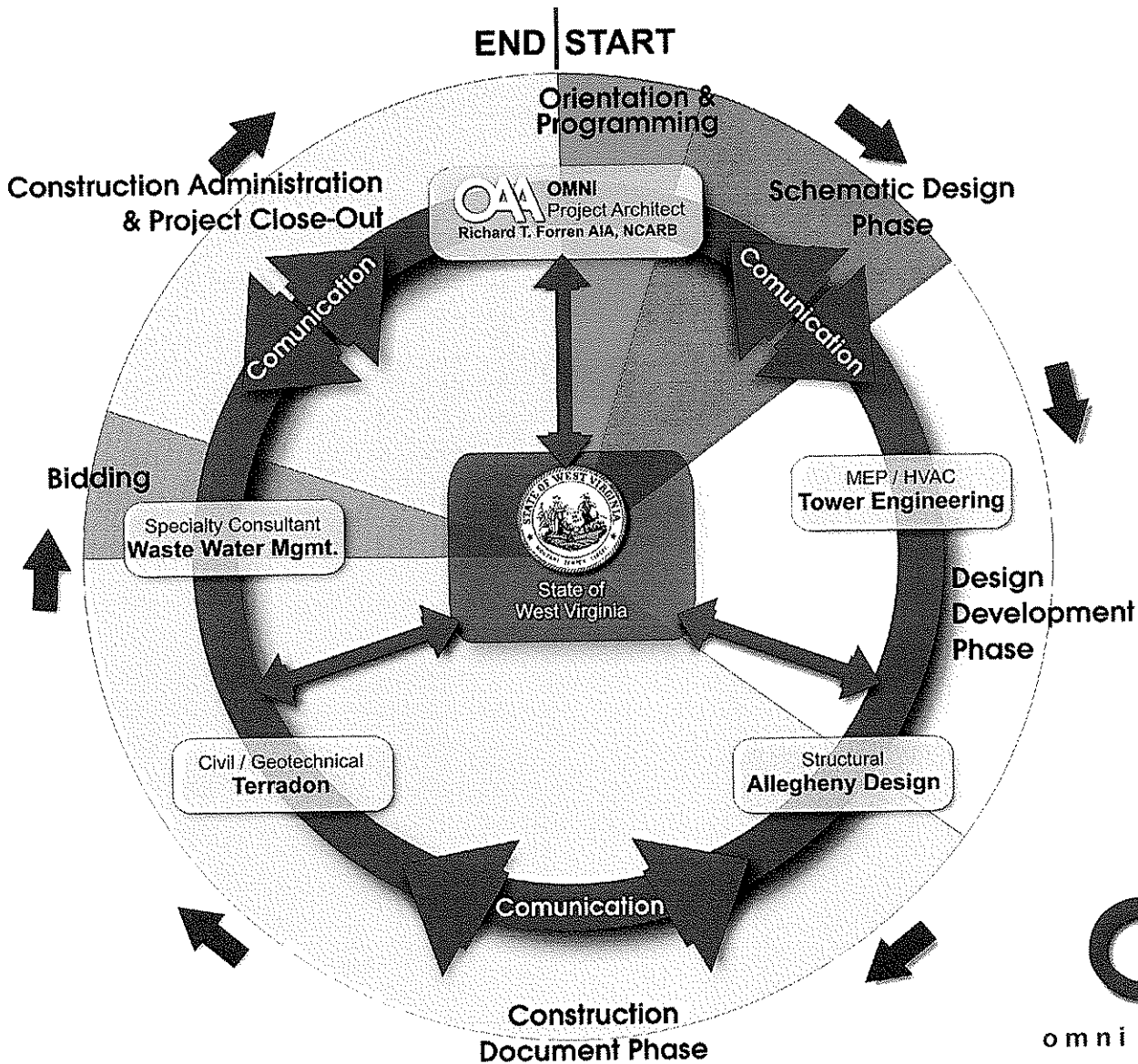
Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Organizational Chart



**OMNI
COLLABORATIVE PROJECT LIFE-CYCLE**



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

Demonstrated Experience

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

Relevant Projects

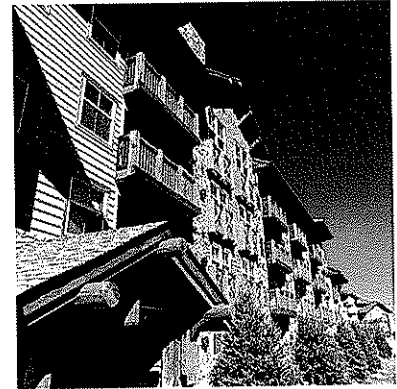
Our recreational and resort projects experience distance us as the most experienced firm in West Virginia associated with the design of such facilities. The following completed and ongoing projects demonstrate this design team's ability to execute projects relevant to the Cacapon Resort State Park lodge expansion and park improvements. More detailed information for each of the projects in bold print can be found at the end of this proposal.

Recreational Facilities, Resort & Lodge Project Experiences:

Twin Falls Resort Lodge Addition and Renovation
Volcano Island Resort
Bluestone State Park Pool and Bathhouse
Healthworks Rehab & Fitness
Pipestem State Park McKeever Lodge and Cabin Expansion
Feasibility Study
Upshur County West Virginia Feasibility Study –
Curry Property and Recreation Facility
Snowshoe Mountain Resort Master Planning
Canaan Valley Resort Overnight Units Feasibility Study
Shavers Center at Snowshoe Mountain Resort
Camp 4 at Snowshoe Mountain Resort
Canaan Valley Resort Cabin Expansion
Rimfire Lodge at Snowshoe Mountain Resort
Camp Wilderness at Snowshoe Mountain Resort
Silvercreek Lodge
Emerald Isle Resort
Mountain Lodge and Conference Center at Snowshoe Mountain Resort
Canaan Valley Resort Ski Base Lodge
Canaan Valley Resort Lodge Expansion
Pete Dye Golf Club Clubhouse
Hawthorne Valley Clubhouse at Snowshoe Mountain Resort
Stonewall Jackson State Park Clubhouse

Pool / Aquatics Area, Bathhouse Project Experience:

Pool and Bathhouse, Shinnston, West Virginia
BOPARC Children's Aquatic Pool, Morgantown West, Virginia
BOPARC Marilla Pool Renovations, Morgantown, West Virginia
BOPARC Water Slides, Morgantown West, Virginia
12th Street Pool Renovation, Fairmont, West Virginia
Recreation Center Feasibility Study, Fairmont, West Virginia
Recreation Center Feasibility Study, Martinsburg, West Virginia
Children's Aquatic Center, Clarksburg, West Virginia
Canaan Valley Resort Lodge Indoor Pool
Upshur County Parks Commission Curry Park Master Plan



You have been an excellent team player, and we surely appreciate the quality of the building (Fairmont State College Education and Health Careers Building) you helped develop."

Robert J. Dillman
President
Fairmont State College



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Cacapon Resort State Park: Lodge Expansion and Park Improvements

West Virginia
Department of Administration
Purchasing Division

Buyer: Frank Whittaker—44

RFQ No.: DNR209057

References

The Omni Associates realize that our relationship with our client is a vital component in the succession of realizing their goals and needs.

We encourage you to contact any of the following references in assisting you with your selection of a professional architectural firm.

Client

**Division of Natural Resources
WV Parks & Recreation Section**
Capitol Complex, Bldg. 3, Room 714
1900 Kanawha Blvd., East
Charleston, WV 25305-0662

**West Virginia High Technology
Consortium Foundation**
1000 Technology Drive, Suite 1000
Fairmont, WV 26554

Morgantown Utility Board
278 Greenbag Road
Morgantown, WV 26501

City of Fairmont
200 Jackson Street
Fairmont, WV 26554

**West Virginia Army
National Guard**
1707 Coonskin Drive
Charleston, WV 25311-1099

Fairmont State University
Locust Avenue
Fairmont, WV 26554

Canaan Valley Institute
P.O. Box 673
Davis, WV 26260

Mylan Pharmaceuticals
781 Chestnut Ridge Road
Morgantown, WV 26505

West Virginia Radio
P.O. Box 1900
570 Canyon Road
Morgantown, WV 26505

Contact

Mr. Brad Leslie
Chief Engineer
304.558.2764 ext. 273

Mr. Raymond Oliverio
Executive Vice President
304.366.2577

Mr. James Green
General Manager
304.292.8443

Mr. Jay Rogers
City Planner
304.366.6211

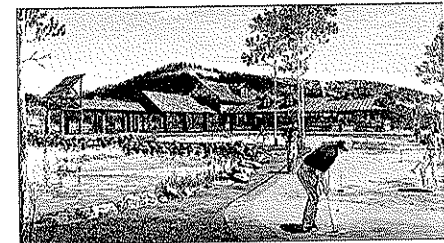
Dan Clevenger, EIT, Project Manager
Construction & Facilities Maintenance
304.561.6446

Mr. James Decker
Assistant Vice President, Physical Plant
304.367.4861

Mr. Dan Wheeler, Construction Manager
Science & Technology Team
304.463.4739

Mr. J.J. Dotson
Director of Engineering
304.554.5520

Mr. Jim Troy
V.P. of Finance
304.594.1768



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Resume

Richard T. Forren AIA, NCARB

PROJECT ASSIGNMENT

Principal
Project Architect



Select Project Experience for Mr. Forren

West Virginia High Technology Consortium, Fairmont, WV

Allan B. Mollohan Innovation & Incubator Center
Technology Consortium Training Center
New 80,000 SF Office Building

Marion County Schools, Fairmont, WV

West Fairmont Middle School
Fairmont Sr. High School Cafeteria

Fairmont State University, Fairmont, WV

Library Addition & Renovation
Feaster Center Renovation & Addition
Colebank Hall Renovation
Inner Campus Renovation
New Engineering Technology Building
New Performing Arts Building
Robert C. Byrd Mid-Atlantic Aviation Training Center, Phases I & II

City of Fairmont, Fairmont, WV

Public Safety Building
Downtown Parking Garage

West Virginia Army National Guard, Eleanor, WV

Maintenance Facility
Armed Forces Readiness Center
Access Road & Guard House

Snowshoe Mountain Resort, Snowshoe, WV

St. Barnard Catholic Chapel
Shaver Center Renovation Design

BOPARC, Morgantown, WV

Morgantown Family Recreation Center
Marilla Pool
Water Slide, & Children's Aquatic Area
Ice Rink Renovations

General Services Administration

Federal Building Renovations
Wheeling, WV
Martinsburg, WV
Huntington, WV
Beckley, WV

EDUCATION

Masters of Architecture, Virginia Polytechnic Institute & State University, Blacksburg, VA
BS, Civil Engineering Technology, Fairmont State College, Fairmont, WV

REGISTRATION

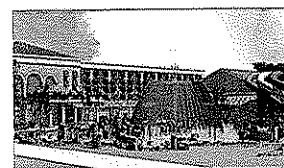
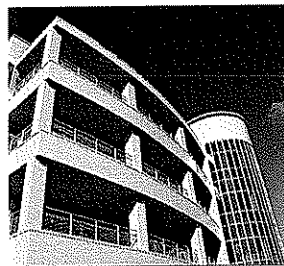
West Virginia, Pennsylvania, Ohio, Kentucky, New Jersey
National Council Architectural Registration Board Certified
Member of The American Institute of Architects
Firm Member Associated Builders and Contractors Inc.

GENERAL EXPERIENCE

- Project Architect in charge of design and construction for The Omni Associates - Architects since 1984.
- Responsible for coordinating and designing all aspects of a project from schematic design through the final completion of construction for a wide range of commercial projects to include presentation renderings and graphics.
- Previously employed by Robert J. Bennett AIA & Associates, Morgantown, West Virginia 1983 to 1984. Worked and managed various phases from schematics to working drawings on a number of new and renovated educational facilities.

RELATED EXPERIENCE

- Lieutenant Colonel in the United States Army Reserves currently assigned as the Commanding Officer of a 820-man Engineer Combat Battalion with subordinate units located in Weirton, WV, Wheeling, WV, Parkersburg, WV, Bridgeport, WV, New Martinsville, WV, Marietta, OH, Belaire, OH, Marion, VA.
- Member of the Faculty Advisory Committee for Civil Engineering Technology and Architectural Engineering Technology, Fairmont State College, Fairmont, West Virginia
- Member of the Bridgeport City Planning Commission
- Previously a part time Instructor of Architecture at Fairmont State College, Fairmont, WV responsible for the instruction of senior level students in architectural construction and detailing.



PERSONNEL RESUMES

HARVEY "BUD" McCALLISTER, JR., P.E.
SENIOR CIVIL ENGINEER

Mr. McCallister has over 30 years of experience in water projects including regulatory compliance and permitting. His resume includes very successful water projects in many West Virginia cities and communities including: Town of Burnsville, City of Logan, City of Glenville, City of Salem, Town of West Union, Town of Fort Gay, Hooverson Heights Public Service District, City of St. Marys, City of Fairmont, Town of Ravenswood, Salt Rock Public Service District, City of Parsons, City of Charles Town, Flatwoods Canoe-Run Public Service District, City of Buckhannon, Walton PSD , Clay Roane PSD and many others.

In addition to his extensive experience in the consulting engineering field, Mr. McCallister has several years' experience working for regulatory agencies such as the WV Department of Environmental Protection and the WV Bureau for Public Health. In his role as a regulator, Mr. McCallister assisted many communities with compliance with regulatory issues and operational problems. This experience has been invaluable to his knowledge of regulations, system operations, and regulatory agency requirements for water and sewer projects.

Mr. McCallister's duties include being in responsible charge of the design teams as it relates to technical design of water projects and to provide oversight to operation and maintenance issues relating to the projects.

EDUCATION B.S. Civil Engineering, 1969, West Virginia University
M.S. Civil Engineering - Sanitary Engineering, 1972, West Virginia University

REGISTRATION Professional Engineer: West Virginia, Ohio

WORK EXPERIENCE 2007 - Present TERRADON Corporation
1977 - 2007 Various consulting firms and WV-DEP, WV-BPH

PROJECTS

- **Kanawha State Forest Wastewater Treatment Plant Replacement Project**
Design engineer for the Kanawha State Forest Wastewater Treatment Plant Replacement. The project involved replacement of an existing septic tank at Kanawha State Forest in Kanawha County. The wasteload allocation required very low levels of suspended solids, BOD, nitrogen, and low levels of chlorine. A recirculating sand filter with ultra-violet light disinfection was designed to meet the discharge limits.
- **Bluestone State Park Wastewater Treatment Plant Replacement**
Design engineer and Project Manager for a 26,500 GPD package extended aeration wastewater treatment plant at the camp ground. The project required removal of the existing package treatment plant and installation of ht new plant during the off-season.
- **State Park Study for the Department of Health**
As an employee for the Department of Health, inspected water and wastewater facilities at a number of state parks and assisted in preparation of the report to the legislature.



RESUME

GREGORY D FOX, ASLA
LANDSCAPE ARCHITECT

TERRADON's Land Development Services are managed by Gregory D. Fox, ASLA. Mr. Fox, a native of West Virginia, has been responsible for a number of notable recreation, commercial, and educational site development projects since joining TERRADON in February of 2000. His group earned a 2001 Engineering Excellence Award from the West Virginia Association of Consulting Engineers for the master planning of an extreme sports park at WVUIT in Montgomery. They also earned a 2002 Engineering Excellence Award from the West Virginia Association of Consulting Engineers and a 2002 Merit Award from the American Society of Landscape Architects for the City of Fairmont Riverfront Master Plan project. Most recently, the 2005 Gold Award from the American Council of Engineering Companies and a 2005 Honor Award from the American Society of Landscape Architects was presented to the firm for the site design of the new West Virginia Division of Environmental Protection Headquarters Building.

REGISTRATION Professional Landscape Architect
West Virginia
Virginia
Ohio
Pennsylvania

EDUCATION B. S. Landscape Architecture, 1988, West Virginia University
B. A. Geography (Planning), 1994, West Virginia University

WORK EXPERIENCE 2000 - Present TERRADON Corporation
1996 - 2000 Martin Boal Anthony & Johnson Architects, Charlotte, NC
1993 - 1996 Site Design, Huntington, WV
1989 - 1993 E.G.&G., Inc., Akron, OH
1988 - 1989 PSC Engineers, Lancaster, PA

PROJECT EXPERIENCE Site/Civil Project Manager for the following projects:
WV DEP Headquarters Building, Charleston, WV
Fairmont Coke Works Site Redevelopment, Fairmont, WV
Fairmont Riverfront Master Plan, Fairmont, WV
Fountain Place Development, Logan, WV
Southridge Center Phase II, Charleston, WV
Blue Mountain Village, Bluefield, WV
Ashland Development, Southern, WV
Quarry Creek Expansion, Charleston, WV
Leatherwood Crossing, Bluefield, VA
Black Diamond, Blacksburg, VA
The Homestead, Warm Springs, VA

TERRADON
CORPORATION

PERSONNEL RESUMES

JOHN W JAMES, PE
SENIOR GEOTECHNICAL ENGINEER

Senior engineer for various geotechnical, environmental, and mining projects. Prior to joining TERRADON in 2004, Mr. James was the proprietor of JAMES ENGINEERING, a one man consulting engineering company with projects in geotechnical, hydrological, environmental, foundation, structural and general civil engineering, as well as forensic engineering. Mr. James specializes in innovative and cost saving concepts for his projects. Typical projects include numerous foundation investigations, studies and designs for landfills and environmental facilities, surface and ground water studies and remediation, foundation investigations and designs ranging in size from houses to major industrial complexes, roads, highways and bridges, earth and rockfill dams, storm drainage facilities, airport facilities, landslide analysis and correction, and forensic engineering.

REGISTRATION Professional Engineer: West Virginia

EDUCATION B. S. Civil Engineering, 1968, West Virginia Institute of Technology
30 Post-Graduate Hours in Civil and Environmental Engineering

AFFILIATIONS American Society of Civil Engineers
Past President of Charleston Branch and West Virginia Section
National and West Virginia Society of Professional Engineers
Past President (Charleston Chapter)
Young Engineer of the Year Award (Charleston Chapter)

PROJECT EXPERIENCE Geotechnical investigation and design of numerous water and wastewater treatment plants, including Charleston Wastewater Treatment Plant, North Beckley Wastewater Treatment Plant, Buckhannon Water & Wastewater Treatment Plant, Elkins Water & Wastewater Treatment Plant, Berkley Spring Water Treatment Plant, Morgantown Wastewater Treatment Plant, Elk Pinch Wastewater Treatment Plant, Parkersburg Wastewater Treatment Plant, St. Albans Water Treatment Plant.

Design and upgrade of water supply dams including Upper & Lower Dog Run water supply dams, Salem, West Virginia; Key Dam, Bluefield, West Virginia; Chatham Lake Dam (irrigation supply), Shady Springs, West Virginia. Involvement with geotechnical aspects included interaction with process and structural aspects and structural design of many components.

PROGRAM TEAM STAFFING

TERESA A SCHULLER, LRS
ENVIRONMENTAL MANAGER

Environmental Manager for risk assessment, site assessment, and property transfer/ due diligence assessment projects. Management and sales responsibilities for mergers and acquisitions, risk assessments, environmental permitting, and other management consulting services.

Twenty-six years of experience in environmental research, state, and consulting experience. As an analytical chemist, research included organic and inorganic compounds fate and degradation in soil, surface water, sediment, and ground water. Project management of multifaceted domestic and international mergers and acquisition projects. Management of manuals preparation (PPC, SPCC, Spill response, ground water protection plan, etc.). Conducted environmental and OSHA training. Conducted compliance audits at industrial facilities. Managed, prepared, and defended CERCLA and RCRA risk assessments. Managed more than 600 telecommunications tower siting projects in West Virginia, Kentucky, Ohio, and Virginia. More than 14 years of applicable risk assessment work conducting and managing over 100 various types of risk assessments for industry and PRP committees. Negotiations with agencies on No-Action risk assessments, risks during remediation, and cleanup levels. Project manager for various general civil engineering projects and construction management. Responsible for planning, design, permitting, and construction management of water distribution, storage and treatment; wastewater and storm water collection and treatment; fire protection systems; site development; and water impoundments.

REGISTRATION West Virginia Licensed Remediation Specialist #174

PROFESSIONAL CERTIFICATIONS Forty Hour HAZWOPER
OSHA HAZWOPER Instructor

EDUCATION B.S., Chemistry, Eastern Illinois University, 1979
M.S., Chemistry, West Chester University, 1983
Continued education in specialized training and management courses
ISO 9000 Quality Training

WORK EXPERIENCE 1998 – Present TERRADON Corporation
1986 – 1998 Environmental Resource Management, Inc.
1983 – 1986 E. I. DuPont Company

TERRADON
CORPORATION

JAMES N. KOSINSKI, P.E.

*Principal, Vice President
Senior Project Manager
Mechanical Engineering*

EDUCATION

Bachelor Architectural Engineering
Penn State University
1989

REGISTRATION

PE, Pennsylvania
PE-045741-E

PE, West Virginia
PE, Michigan
PE, Maryland
PE, New York

AFFILIATION

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)

Association of Energy Engineers

Mr. Kosinski has nineteen (19) years of experience as a mechanical engineer, primarily responsible for the design of HVAC systems and their components for hospitals, schools, universities, laboratories, office buildings, and commercial and light industrial facilities. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems.

Mr. Kosinski's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analysis, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures.

As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

REPRESENTATIVE EXPERIENCE

Twin Falls State Park, Mullens, West Virginia
Systems Evaluation & Design, Lodge Expansion

Holiday Valley, Ellicottville New York
Tamarack Club Condominiums

Hampton Township, Pennsylvania
*Municipal Buildings Master Plan, Phases 1 and 2
New Community Center*

Lycoming College, Williamsport, Pennsylvania
Student Recreation Center Renovation/Expansion

Glenville State College, Glenville, West Virginia
Heflin Student Center Assessment Report & Renovation

EDUCATION

Bachelor, Electrical Engineering
Case Western Reserve University
1997

REGISTRATION

PE, Pennsylvania
PE-061041
2003

AFFILIATION

Illuminating Engineering Society of
North America (IES), Pittsburgh
Section, Treasurer

T STEFFANIE BAKO, P.E.

*Firm Associate
Senior Project Manager, Electrical Engineering*

Ms. Bako has ten (10) years of experience in the electrical engineering field. She has designed electrical systems and their components for office buildings, health care facilities, schools, commercial, and light industrial facilities. Ms. Bako has design experience in several areas including power distribution, lighting, security, A/V, and fire alarm systems.

Ms. Bako is primarily responsible for preparation of electrical estimates, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines. She also maintains client contacts and manages projects.

REPRESENTATIVE EXPERIENCE

Twin Falls State Park, Mullens, West Virginia
Systems Evaluation & Design, Lodge Expansion

Fairmont Public Safety Building, Fairmont, West Virginia
Addition/Renovation

Splash Lagoon, Erie, Pennsylvania
Indoor Water Park

Southwest Butler YMCA, Cranberry Township, Pennsylvania
The Rose E. Schneider Family YMCA

West Virginia High Technology Consortium, Fairmont, West Virginia
Base Building & Tenant Fitup for \$13 Million Office Building Complex

Glennville State College, Glennville, West Virginia
Heflin Student Center Assessment Report & Renovation

EDUCATION

BS, Mechanical Engineering
The Behrend College
The Pennsylvania State University
1990

Part-Time Civil Engineering Student
Point Park College
Current

REGISTRATION

PE, Pennsylvania

AFFILIATION

American Society of Plumbing
Engineers

Pennsylvania Army Reserve National
Guard

CHRISTOPHER W. CLARK, P.E.

*Project Manager
Plumbing & Fire Protection Engineering*

Mr. Clark has sixteen (16) years of experience as a mechanical engineer and has designed plumbing and fire protection systems and their components for schools, universities, laboratories, office buildings, and commercial and light industrial facilities.

Mr. Clark has experience with the design of numerous types of plumbing and fire protection systems, including wet and dry fire protection systems; DWV plumbing systems; cold, hot water and hot water recirculation systems; compressed air; storm water management and retainage systems, and sports field irrigation.

REPRESENTATIVE EXPERIENCE

Twin Falls State Park, Mullens, West Virginia
Systems Evaluation & Design, Lodge Expansion

Hampton Township, Allison Park, PA
Hampton Township Community Center

Green Tree Public Library, Pittsburgh, Pennsylvania
Renovation/Addition

Lycoming College, Williamsport, Pennsylvania
Student Recreation Center Addition/Renovation

Scotland School for Veterans' Children, Franklin County, Pennsylvania
Campus Renovation/Addition

Three Rivers Rowing Association, Millvale, Pennsylvania
Boat Storage and Maintenance Building



Allegheny **Design Services** *Structural Engineering*

102 Leeway Street
Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)599-0772
E-Mail: Dave@AlleghenyDesign.com
Web: www.AlleghenyDesign.com

David R. Simpson, P.E., SECB, MBA **President**

Education:

West Virginia Institute of Technology
B.S. Civil Engineering

West Virginia University
Masters Business Administration

West Virginia State College
Architectural Technology

Professional Registrations:

Year first registered: 1983
Structural Engineering Certification Board
West Virginia
Pennsylvania
Maryland
Virginia
District of Columbia
National Council of Examiners for Engineering and Surveying

Professional Memberships:

American Society of Civil Engineers
Structural Engineering Institute, Charter Member
American Concrete Institute
American Institute of Architects – West Virginia Chapter
American Institute of Steel Construction, Inc.
American Iron and Steel Institute Member

Continuing Education:

2005 AISC Specification for Structural Steel Buildings – September 27, 2006 – Pittsburgh, PA
ASCE Testifying Skills for Engineers – February 16, 2007 – Orlando, FL

Professional Experience:

Responsible for project management and design at Allegheny Design Services. Experience includes over 24 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

Experience Record:

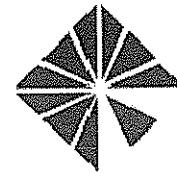
Allegheny Design Services, LLC, President,	May 2002 to Present
R.M. Gensert and Associates, Vice President,	August 1998 to May 2002
West Virginia University, Assoc. Director Construction	August 1988 to August 1998
Simpson Engineering, Owner	August 1988 to August 1998
CECO Buildings Division, Senior Structural Engineer	April 1985 to August 1988
Rockwell International, Facility Structural Engineer	March 1982 to April 1985
Bellard Ladner & Assoc., Staff Structural Engineer	Sept. 1981 to March 1982
PPG Industries, Facility Structural Engineer	January 1980 to Sept. 1981

Additional Professional Experience:

Experience encompasses design, project management, and construction administration for reinforced concrete, structural steel, precast concrete, masonry, and wood structures.

Project experience includes:

Fairmont Senior High School, Fairmont, WV
Belmont Community Center, St. Clairsville, OH
Monongalia General Hospital Operating Room Addition, Morgantown, WV
Chestnut Ridge Church, Morgantown, WV
West Virginia University Business and Economics Building, Morgantown, WV
West Virginia University High Density Book Storage Facility, Morgantown, WV
West Virginia University Life Sciences Building, Morgantown, WV
West Virginia University Student Recreation Center, Morgantown, WV
West Virginia University Wise Library Addition, Morgantown, WV
West Virginia University White Hall Computer Center, Morgantown, WV
UPMC Hillman Cancer Center, Pittsburgh, PA
Carnegie Museum of Natural History Addition, Pittsburgh, PA
Cultural Trust District Parking Garage, Pittsburgh, PA
Delaware Valley Veterans' Home, Philadelphia, PA
Fairmont State University Parking Garage, Fairmont, WV
First Avenue Parking Garage, Pittsburgh, PA
Hillman Cancer Center (UPMC), Pittsburgh, PA
New Enterprise Precast Corporate Headquarters, New Enterprise, PA
Respironics Corporate Office Facility, Pittsburgh, PA
International Brotherhood of Electrical Workers Headquarters Training Center, Pittsburgh, PA
Laurel Highlands Middle School Addition, Uniontown, PA
Trinity High School, Morgantown, WV
Mylan Pharmaceuticals Parking Garage, Morgantown, WV
Phipps Conservatory Addition, Pittsburgh, PA
Radisson Hotel and Conference Center, Morgantown, WV
Western Pennsylvania School for Blind Children, Pittsburgh, PA
In-Situ Vitrification Nuclear Waste Encapsulation Project, Richland, WA
Dominion Transmission Office Building, Clarksburg, WV
Multiple structural evaluations and expert witness for structural damage due to subsurface mining subsidence, floods, ice, wind, and construction errors
Over 400 low-rise metal building projects from Maine to South Carolina, including warehouses, aircraft hangar facilities, shopping centers, industrial facilities, and office facilities.

**President****PROFILE**

Mr. David Rigby has emerged as a national and international expert in the field of industrial and domestic water and wastewater engineering. With more than thirty five years of experience, both as an entrepreneur and as an executive of Virginia-based firms, he has demonstrated a broad level of expertise in engineering, conservation and environmental issues, as well as business development, corporate finance, and human resources. He is also an Adjunct Professor of Graduate Studies at the George Washington University in the Civil and Environmental Engineering Department (1996 – Present), an Assistant Instructor at George Mason University in the Volgenau School of Information Technology and Engineering (2005), and a Guest Lecturer at the University of Nebraska Department of Civil Engineering.

Prior to becoming founder and president of Waste Water Management, Inc., he founded the environmental consulting firm Clean Water Engineers, Inc. in 1979. Through his leadership, the firm became one of the premiere U.S. water and wastewater planning and engineering design firms serving the water industry in response to the promulgation of the Clean Water Act in 1972. Clean Water Engineers provided services to industries, municipalities, and private developers. In 1986, Mr. Rigby was selected as the U.S. Delegate to the People's Republic of China in the field of Industrial Wastewater Treatment working directly with the Chinese Ministry of Industry. In 1990, Mr. Rigby expanded Clean Water Engineers' practice into Mexico and successfully served water intensive industries throughout the country for several years.

In 1992, Clean Water Engineers was acquired by a consortium of Mitsubishi and Osaka Natural Gas to supplement their international environmental engineering capabilities. As his first assignment, Mr. Rigby led a technical team of engineers, scientists, and economists to Thailand to manage a comprehensive multifaceted project funded by the Asian Development Bank to study and plan for major industrial pollution controls in the industrialized Samut Prakarn region of Bangkok. There he worked directly with the Ministry of Science, Technology, and Environment to identify the magnitude of the industrial pollution in the region, after which he developed a long-range regional pollution reduction plan and identified the framework for the creation of the Thai "EPA" to complete the recommended plan implementation.

Mr. Rigby is an accomplished corporate executive with years of versatile experiences in advanced water and wastewater pumping and treatment systems. He is nationally and internationally recognized for his expertise in industrial wastewater treatment, waste minimization, water supply and wastewater treatment and environmental planning. He is known throughout the industry as a Consultant's Consultant and is often retained by larger firms in an expert capacity for specific advice and support on system planning, complex hydraulic or treatment process designs, and business acquisitions.

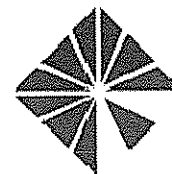
EDUCATION

- ◆ Doctor of Science studies in Environmental Engineering and Engineering Management, The George Washington University, January 2001 – Present
- ◆ Ph.D., course study completed in Sanitary Engineering, Virginia Polytechnic Institute and State University, 1978
- ◆ Master of Science, Civil Engineering, Virginia Polytechnic Institute and State University, 1972
- ◆ Bachelor of Science, Civil Engineering, Virginia Polytechnic Institute and State University, 1971
- ◆ Attendance at numerous professional conferences, seminars, and short schools in sanitary and environmental engineering.

AUTHOR AND PRESENTER

Mr. Rigby has been an author and presenter at various conferences including:

- ◆ Principal Author: "An Innovative Solution Resolves Political, Inter-Governmental and Technical Constraints", (addressing the Gunston Commerce Center Pump Station and Force Main), ASCE "Pipelines" Conference, 2003.
- ◆ Presenter: Georgia Tech Food Industry Environmental Conferences, 1990, 1993, 1994.
- ◆ Presenter: Soap and Detergent Conference, Mexico City, Mexico, 1991.
- ◆ Presenter: Wastewater Reuse Conference, Mazatlan, Mexico, 1992.

**President****PROFESSIONAL EXPERIENCE****WASTE WATER MANAGEMENT, INC., President****1994-PRESENT**

Falls Church, VA

Founded Waste Water Management, Inc. in 1994 for the provision of professional engineering services in the areas of water and wastewater pumping and treatment for industrial, private, and municipal clients. Consulting engineering in the areas of water supply, distribution and storage, wastewater collection, treatment and disposal, stormwater management, and land development. Detailed engineering design and drafting, bid analysis, and construction management for water and wastewater treatment plants and pump station projects. Industrial and municipal water and wastewater treatment process and operations evaluations. Preparation of operations and maintenance manuals. Contract operations for industrial water, wastewater and pretreatment plants, and municipal water and wastewater systems. Project financing and ownership for industrial water and wastewater treatment systems. Turn-key private and industrial water and wastewater project development. International project management consulting.

ESPEY, HUSTON & ASSOCIATES, INC.**1992-1994****International Projects and Eastern Region Water and Wastewater Division Director**

Fincastle, Virginia

Involved in the planning and implementation of the International Services Division, which continued to build on the Mexican client base of services developed by Clean Water Engineers, Inc.. Responsible for the continued marketing of the Mexican industrial water and wastewater treatment market and for providing technical leadership for EH&A's Far East initiative.

Worked directly with the Ministry of Science, Technology, and Environment in Bangkok, Thailand as technical team leader for a large, multifaceted regional industrial wastewater project for the Asian Development Bank. Responsible for establishing and managing the Water and Wastewater Services Division in EH&A's Eastern Region, which served industrial and municipal clients in Virginia and the Carolinas.

CLEAN WATER ENGINEERS, INC., President**1979-1992**

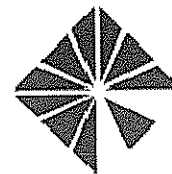
Williamsburg, Virginia

Founded Clean Water Engineers, Inc. and was involved in all aspects of the business, including engineering, business administration, marketing, and personnel management. Supervised a thirty person professional staff of engineers, drafters, surveyors, and administrative assistants. Expanded the firm from a local municipal service firm to a nationally recognized expert firm in the field of industrial wastewater treatment. Actively involved in plant operations, wastewater treatability studies, municipal financing, engineering planning, design, and construction supervision, as well as providing expert testimony. Operated a Virginia Class A Utility Construction Division, which constructed small sewer and pump station projects and provided sewer system Infiltration/Inflow maintenance and repair services. Expanded the company to the international level, successfully penetrating the Mexican industrial market, performing fifteen water and wastewater treatment projects in 1991—1992.

DRAPER-ADEN ASSOCIATES, President**1975-1979**

Blacksburg, Virginia

Developed the water and wastewater engineering department and supervised numerous municipal and private water and wastewater utility projects, including water and sewer lines, pump stations, storage tanks, and treatment plants. Prepared and filed numerous federal and state grant and loan applications. Performed construction estimating, monitoring, engineering, report writing, and public presentations. Developed, budgeted and monitored municipal water and wastewater projects. Performed extensive marketing for new projects and clients. Supervised a small engineering staff and coordinated the activities of the engineering department with the surveying and drafting departments.

**President****GILBERT W. CLIFFORD & ASSOCIATES, Engineer****1972-1974**

Fredericksburg, Virginia

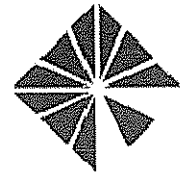
Planned and designed numerous public and private water and sewer utilities throughout Virginia. Designed water and sewer lines, pump stations, storage tanks, and treatment plants. Supervised and managed a staff of three design engineers and five drafters, and coordinated the activities of the production department with other departments.

DESIGN AND CONSULTING EXPERIENCE

- ◆ Designed the first wastewater treatment plant project funded under Public Law 92-500 for the EPA Construction Grant program.
- ◆ First engineer in Virginia to use UV technology for disinfection of both drinking water and treated wastewater.
- ◆ Designed more than 100 industrial wastewater treatment plants.
- ◆ Designed more than 100 municipal wastewater treatment plants and evaluated more than 100 municipal wastewater treatment plants not designed.
- ◆ Designed more than 50 municipal and industrial water treatment plants.
- ◆ Designed more than 300 water, sewage and stormwater pumping stations.
- ◆ Past Corporate wastewater treatment and process consultant to Burlington Industries, Coca Cola, McCormick & Company, and Kimberly Clark de Mexico.
- ◆ Performed extensive construction management on state and federal grant and loan funded projects including projects funded by EPA, FmHA, and the COE.
- ◆ Designed the Roanoke City, Virginia wastewater plant upgrade from 24 - 60 MGD.
- ◆ Designed the 266 MGD Edmonston stormwater pump station in Prince George's County, MD in a record 90 days. The project was completed first quarter 2008.
- ◆ Developed the engineering program for the conversion of the City of Danville 24 MGD wastewater treatment plant from pure oxygen to single stage nitrification in 2007.
- ◆ Selected from 20 engineering firms as the Town Engineer for the Island of Chincoteague to develop its first public sewer system, 2006. Currently proposing to dispose of highly treated effluent through deep well injection utilizing an EPA issued permit.

PROJECT HIGHLIGHTS

- ◆ **Industrial Wastewater:** Led more than one- hundred industrial wastewater treatment projects in the United States and around the world, including more than twenty in the state of Virginia.
- ◆ **Domestic Wastewater:** Engineering design and evaluation of more than one hundred wastewater treatment plants throughout Virginia, Maryland, Delaware and the southeastern United States.
- ◆ **Hydraulic Systems and Pumping:** Directed more than three hundred major pumping system projects, including ground-up design and expansion projects in Virginia and the southeast.
- ◆ **Water System and Treatment Plants:** Designed more than eighty five water systems for municipalities, developments, schools and hospitals in Virginia, West Virginia and North Carolina.
- ◆ **Sewage Collection Systems:** Designed more than fifty community-wide sewer systems for municipal and private clients in Virginia, West Virginia and the Carolinas.
- ◆ **Expert Testimony:** Provided expert legal testimony in several significant legal cases in Virginia, Kentucky, South Carolina, Alabama and Indiana.



President

PROFESSIONAL REGISTRATION

Professional Engineer in the States of Virginia, West Virginia, Maryland, North Carolina, South Carolina, Tennessee, Kentucky, Wisconsin and Nevada
Virginia Wastewater Works Operator - Class I
Virginia Wastewater Works Operator - Class II

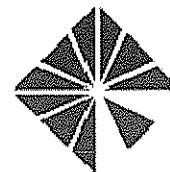
TEACHING

Mr. Rigby is an Adjunct Professor of Graduate Studies at the George Washington University in the Civil and Environmental Engineering Department (1996 – Present), an Assistant Instructor at George Mason University in the Volgenau School of Information Technology and Engineering (2005), and a Guest Lecturer at the University of Nebraska Department of Civil Engineering. The courses he teaches include:

- ◆ Wastewater Treatment Plant Design
- ◆ Advanced Sanitary Engineering Design
- ◆ Environmental Impact Assessment
- ◆ Environmental Chemistry
- ◆ Hazardous Waste Management
- ◆ Industrial Waste Management

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, Member
American Water Works Association, Life Member
Botetourt County Building Code Board of Appeals, Past Member
Botetourt Regional Health Department Advisory Committee, Past Member
Chi Epsilon Civil Engineering Honor Society, Member
"Clean Water Journal" (1989 to 1992), Editor
"Meriwether Planned Community" (Fincastle, Virginia), Developer
National Society of Professional Members, Past Member
United States Coast Guard, E-6 Quartermaster, Honorable Discharge
US Department of Health & Human Services (1985 to 1986), Discretionary Grant Officer
US Small Business Association (1986), Delegate to Peoples Republic of China
Virginia Water Project, Ford Foundation Loan Board, Past Member
Water Environment Federation, Member



Project Manager

PROFILE

Mr. Michael Rossi is a Project Manager with over 13 years experience with water and wastewater projects throughout the Chesapeake Bay Watershed region. Since joining Waste Water Management, Inc. in 2005, Mr. Rossi has worked on a variety of public and private projects focusing on the design and construction of sanitary sewage pumping and force main systems, stormwater pumping stations, water treatment plants, and water distribution systems. Other work has included VPDES permitting, a wastewater treatment plant metals removal study, and user fee studies. Mr. Rossi is proficient with AutoCAD, Microstation, SketchUp, Haestad Methods WaterCAD, EPANET 2.0, EPA SWM 5.0, the Microsoft Office Suite, and VisualBasic.

EDUCATION

- ◆ Master of Science, Civil Engineering, The University of Iowa
- ◆ Bachelor of Science, Civil Engineering, University of Missouri

PROJECT EXPERIENCE

EDMONSTON STORMWATER PUMP STATION, Project Manger

Edmonston, VA

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a 266 MGD stormwater pump station. Pump station included three 10' diameter 350 hp Archimedes screw pumps, a 100' long x 11' wide concrete discharge channel, a mechanically cleaned bar screen system, a 1750 kw emergency generator, a new 3000 amp Pepco electrical service, and new WSSC water and sewer services.

ROUTE 20 SEWER PROJECT, Project Manager

International Projects and Eastern Region Water and Wastewater Division Director

Orange, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a suction lift pump station and associated 600 foot gravity sewer and 13,000 foot force main to serve a new manufacturing facility. Pump station includes an 80 kw generator and has provisions for future chemical feed odor control equipment. Project included hydraulic modeling of the force main. Project funding source was a Community Block Development Grant obtained by the Orange County Office of Economic Development.

EDWARD L. KELLY LEADERSHIP CENTER SANITARY SEWAGE PUMP STATION

Project Manager

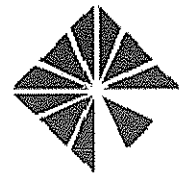
Prince William County, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a duplex submersible pump station to serve a new school administration building. Pump station includes a precast concrete wetwell, control building (structure designed by others) with a valve/meter room and an electrical/control room. Pump station includes carbon adsorption air scrubbing odor control equipment. The pump station connects to an existing force main. Extensive hydraulic modeling was performed to determine the optimum setpoint speeds of the variable frequency drives at each pump station.

RAPPAHANNOCK LANDING SANITARY SEWER PUMP STATION, Project Manager

Stafford, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a duplex submersible pump station to serve new development. Pump station includes a precast concrete wetwell, valve vault, and pig launch structures and chemical feed odor control equipment.



Project Manager

BELMONT GLEN VILLAGE, Project Manager

Loudoun, Virginia

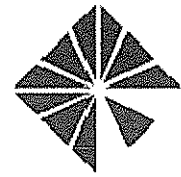
Project Manager responsible for the day to day client management, subconsultant coordination, and oversight of the design of a wet well / dry well sanitary sewage pump station. The pump station was designed as part of the LCSA's Belmont Glen area facilities in order to serve a new development. The pump station includes chemical feed and air scrubbing odor control equipment, an overhead monorail crane, and a 42,000 gallon emergency storage tank.

PROFESSIONAL REGISTRATION

Professional Engineer in the State of Virginia

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, Member



PROFILE

Mr. David Hanna is a registered professional engineer with 35 years of experience in the field of water and wastewater treatment, pump hydraulics, and project management. He is a USCG licensed marine engineer for both steam and diesel vessels of unlimited horsepower. Mr. Hanna has been involved in both the consulting engineering design field and the academic arena teaching first at the State University of New York, Department of Public Health, then at prestigious Rensselaer Polytechnic Institute.

Currently, Mr. Hanna is the chair of the Construction Technology and Management Department at Ferris State University. He is also an ASCE author and conducts seminars for wastewater plant processes and pump system hydraulics. Mr. Hanna has worked with several consulting firms including Calocerinos & Spina, Stearns & Wheeler, J.K. Fraser, Engineering Science and McClure Engineering. Throughout his career, Mr. Hanna has had many professional achievements and has written and published numerous technical papers.

EDUCATION

- ◆ Master of Science in Environmental Engineering, Rensselaer Polytechnic institute, Troy NY
- ◆ Bachelor of Science in Marine Engineering, US Merchant Marine Academy, Kingspoint NY

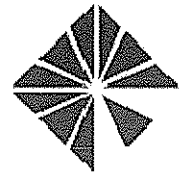
AUTHOR AND PRESENTER

Mr. Hanna has been an author and presenter of the following:

- ◆ "Pumping Station Design – Sludge Pumping Chapter", Butterworths Publishers, Boston MA, 1989.
- ◆ "Design Concerns In Upgrading Wastewater Treatment Plants", Iowa Water Pollution Control Association.
- ◆ "Design Considerations for Medium Sized Plants", New York Water Pollution Control Association.
- ◆ "Evaluation of Plant Hydraulics and Pumping Wastewater Treatment Plants, New York State Department of Environmental Conservation and Operator Training and Certification Program.
- ◆ "Advanced Treatment Cost Savings with Biological Nitrification and Denitrification", New York Water Pollution Control Association.
- ◆ "Evaluation of Plant Hydraulics and Pumping In Existing Wastewater Treatment Plants", New York State Department of Environmental Conservation Operator Training and Certification Program.
- ◆ "Practical Sludge Pumping", Iowa Water and Wastewater Short Course, Iowa Water Pollution Control Association.
- ◆ "Hydraulic Analysis and Upgrade Considerations for Water and Wastewater" seminars

PROJECT EXPERIENCE

- ◆ 2 MGD "cold climate" oxidation ditch WWTP at Sherill NY.
- ◆ Upgrade to the City of Youngstown OH, 30 MGD WWTP.
- ◆ 4.0 MGD WWTP.
- ◆ 8.0 MGD WWTP for the community of Fulton NY.
- ◆ 7.0 MGD WWTP for the City of Ottumwa IA.
- ◆ 0.0 MGD WWTP for the City of Binghamton NY.
- ◆ 9.0 MGD WWTP for the Seneca Knolls NY.
- ◆ 6.0 MGD WWTP for the City of Adel IA.



Affiliated Consultant

DESIGN AND CONSULTING EXPERIENCE

- ◆ Served as the hydraulic engineer advisor, analyzing the design flow in the discharge channel and openings in an existing box culvert for the Edmonston Stormwater Pump Station, in Edmonston, VA.
- ◆ Lead Engineer for the design and development of bid ready documents for the construction of a waste activated sludge pumping station for the Big Rapids wastewater treatment plant in Big Rapids, MI.
- ◆ Project Engineer for the evaluation and development of contract drawings for the retrofit for the Adel Sewage Pump Station in Idaho. The final set of bid documents developed for the project quadrupled the flow capacity of the pump station without significant structural changes.
- ◆ Project Evaluation Engineer for the field evaluation of a municipal pump station to fix a complicated cavitation problem. The problem at Sawmill Creek Pump Station in Sawmill Creek, NY was corrected and other upgrades were recommended.
- ◆ Project Evaluation Engineer for the Binghamton Pump Station evaluation. Responsible for the evaluation of seventeen existing sewage pump stations in order to determine the remaining useful service life and providing upgrade recommendations.

PROFESSIONAL REGISTRATION

- ◆ Professional Engineer in the State of Ohio

TEACHING

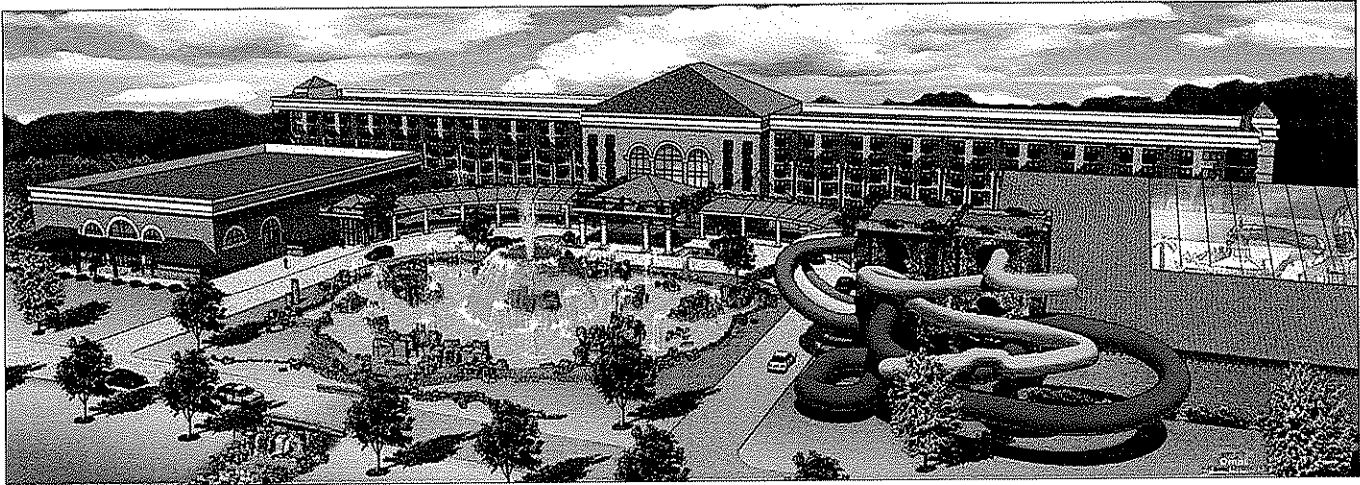
- ◆ Chairman, Department of Civil and Construction Engineering, Ferris State University, Big Rapids Michigan, 1991 – Present

PROFESSIONAL AFFILIATIONS

ASCE, ASME, ASHRAE



Volcano Island Resort



Volcano Island Indoor Water Park Resort and Conference Center is located in Fairmont, WV overlooking the Monongahela River valley.

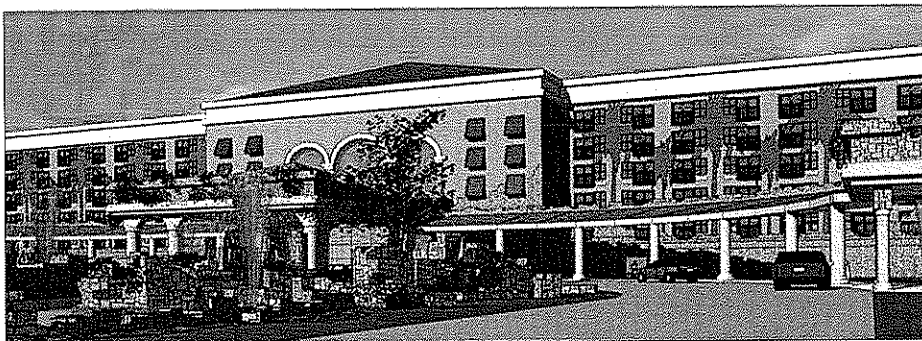
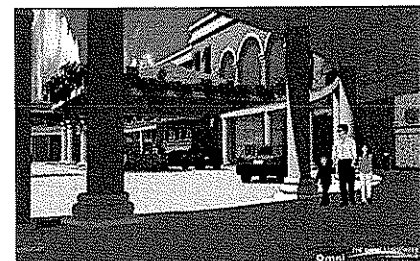
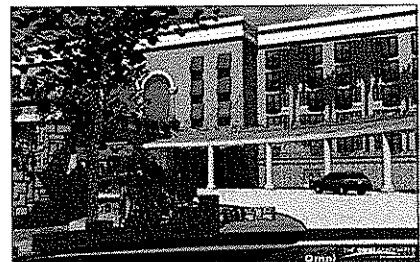
The resort will be the most innovative, full service and inclusive resort in the area. With 300 suite style rooms, upscale and family restaurants, lounges, over 30,000 square feet of meeting and conference space featuring the areas largest most elegant ballroom, Volcano Island has something for everyone. The 50,000 sq ft indoor water park will showcase several slides to include a family raft ride and a water coaster. For the adventuresome, try your hand at surfing on the Flow Rider. During the summer season enjoy time at the "beach" alongside our outdoor wave pool or a float around the "endless" lazy river.

The conference center at Volcano Island Resort will feature over 30,000 sq ft of state of the art meeting and conference space. The Grand Ballroom will be the areas largest, accommodating up to 1,000 guests making it the perfect place for, conferences, social galas, weddings and fund raisers. A second ballroom will accommodate gatherings of up to 300 guests. Meeting planners will enjoy the ample and flexible breakout space featured in the conference center.

Connected to the conference center is 300 suites and Volcano Island Indoor Water Park Resort featuring over 50,000 sq ft of indoor water fun. After a long day of meetings your guests can enjoy a fantastic meal at one of the restaurants, relax in the lounge or spend time with their family at the year round indoor water park. [Source: <http://www.volcanoislandresort.com>]

Volcano Island Resort
Fairmont WV
\$87 million
Square Footage: 415,000

Hotel: 300 Suite Style Rooms
Conference Center: 30,000 Square Feet
Indoor Water Park: 50,000 Square Feet



Omni Associates - Architects, Inc.

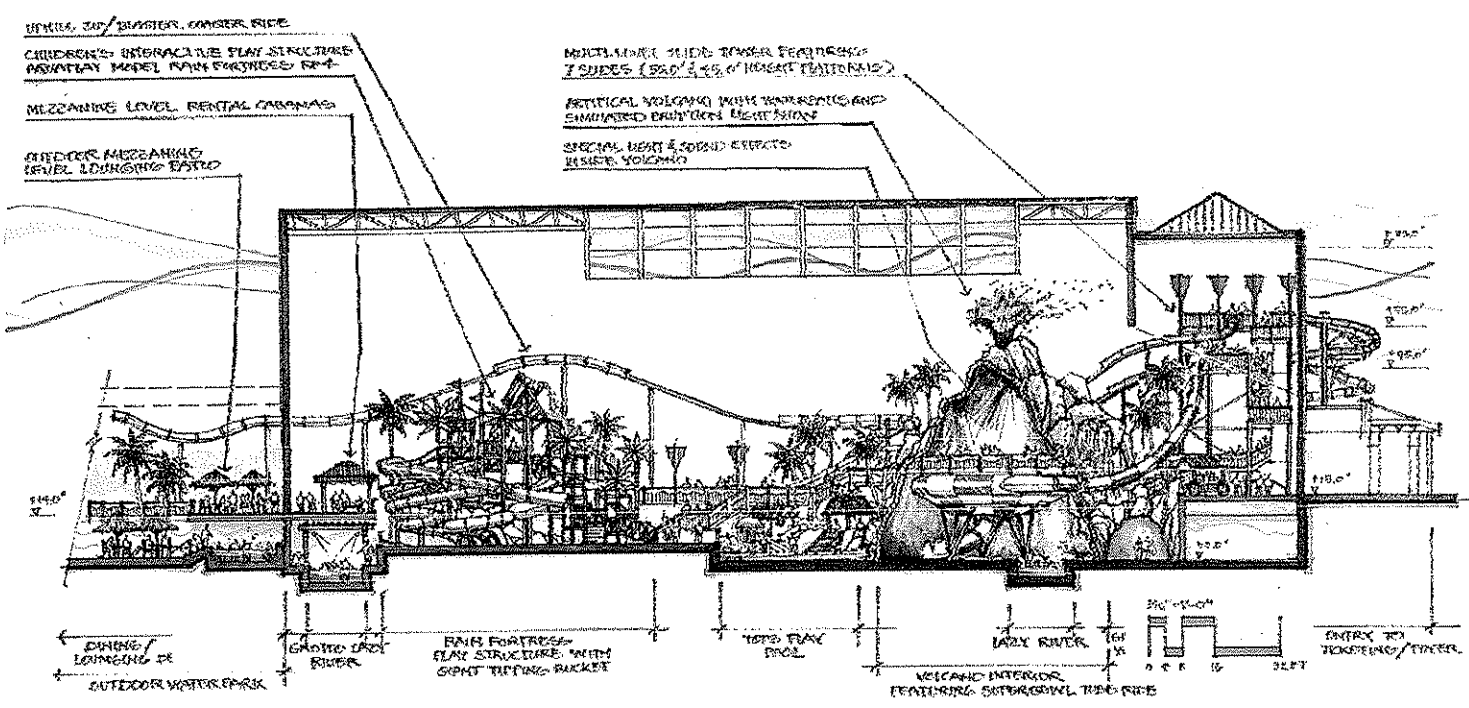
www.omniassociates.com

304.367.1417

info@omniassociates.com



Volcano Island Resort



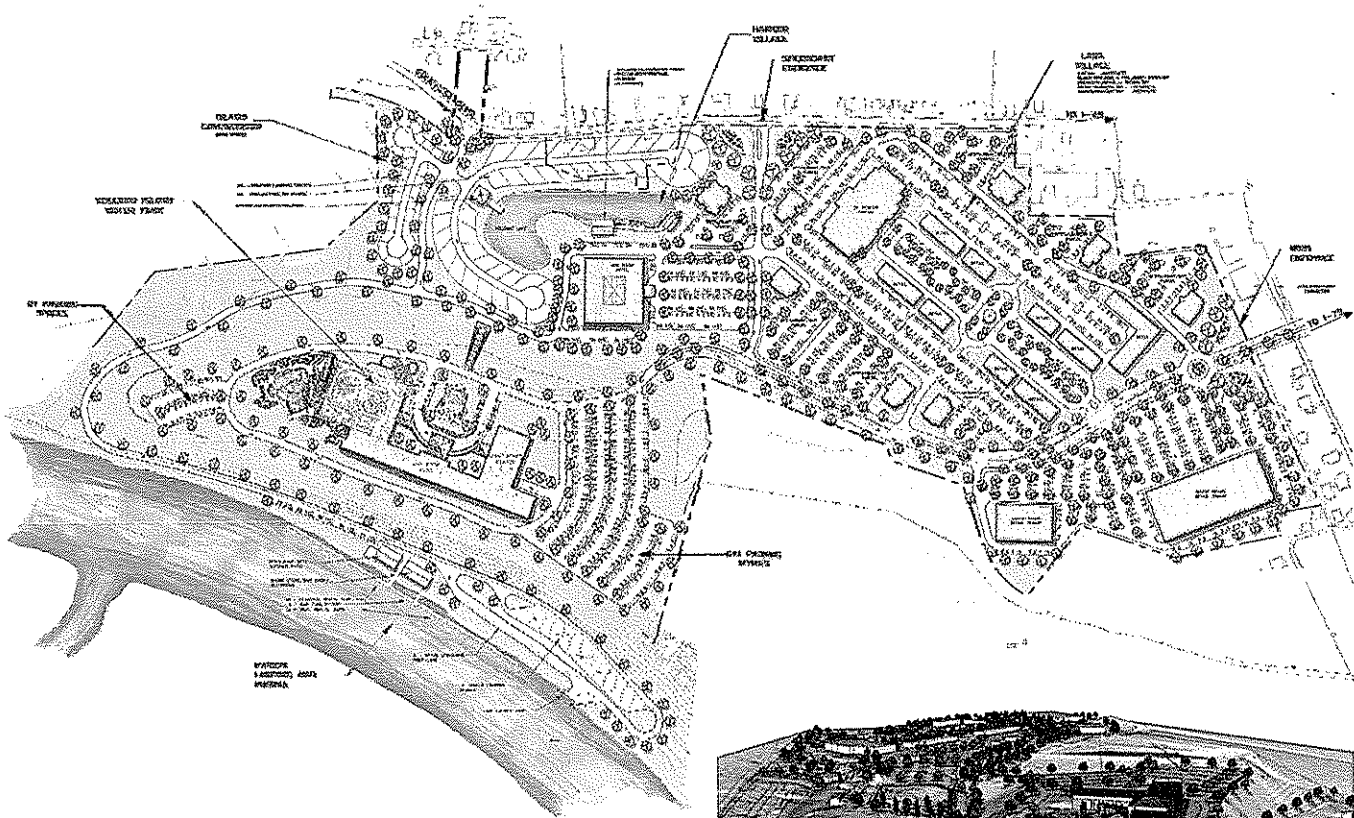
Features of the indoor/outdoor water park include:

- More than 50,000-square-feet of indoor aquatics areas open year round.
- Environmentally controlled air temperature is 86 degrees and water temperature of 84 degrees.
- 12 water slides designed for all ages.
- A flow-rider wave-making surf machine.
- A state-of-the-art water roller coaster that travels throughout the water park.
- A bowl slide enclosed in an erupting volcano.
- An endless river with an adventure zone and multiple water features.
- A themed multi-level tree house with a 1,000-gallon tipping bucket.
- Children's splash 'n play area.
- Activity pool and an indoor/outdoor whirlpool.

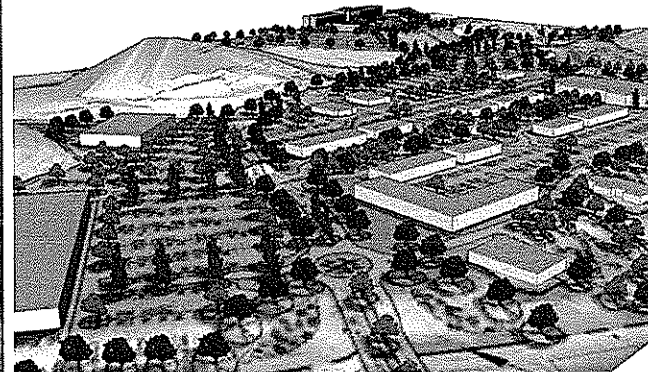
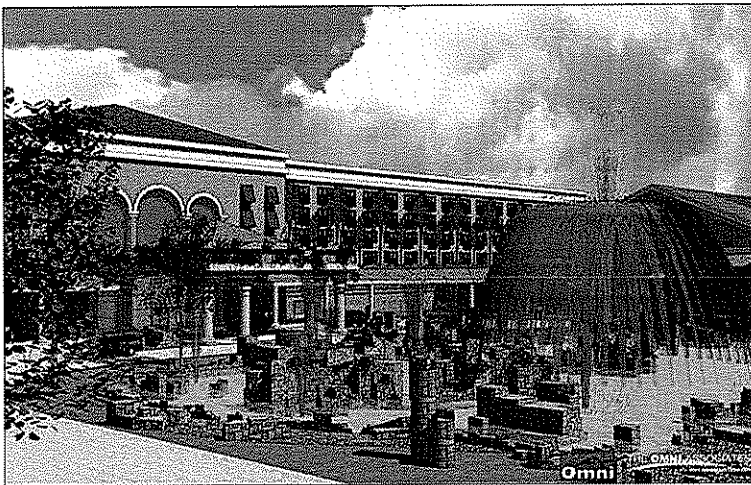
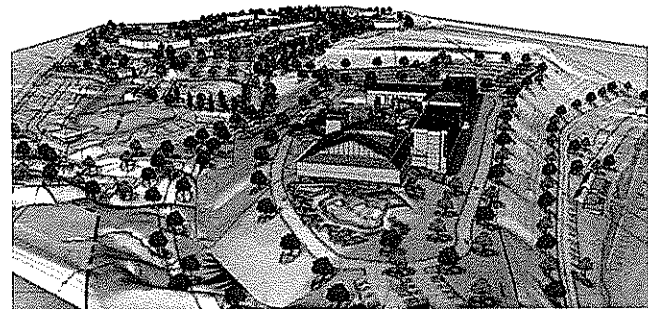




Volcano Island Resort



Master Plan
 Phase I: Volcano Island Resort
 Future Development:
 - Lava Village Retail Development
 - Island Campground

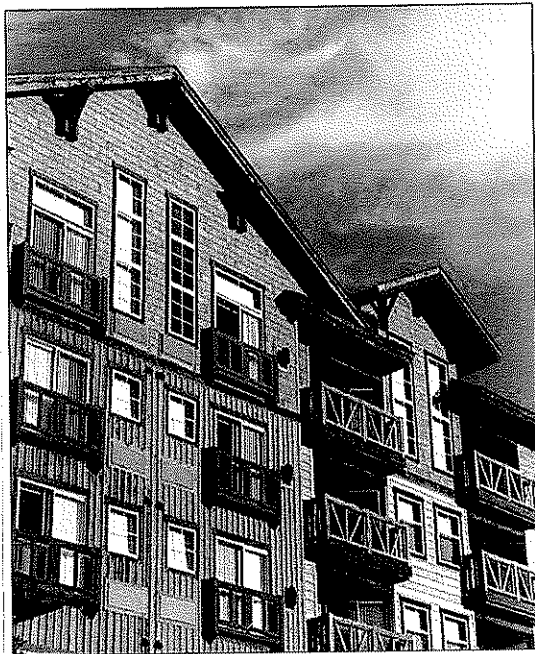
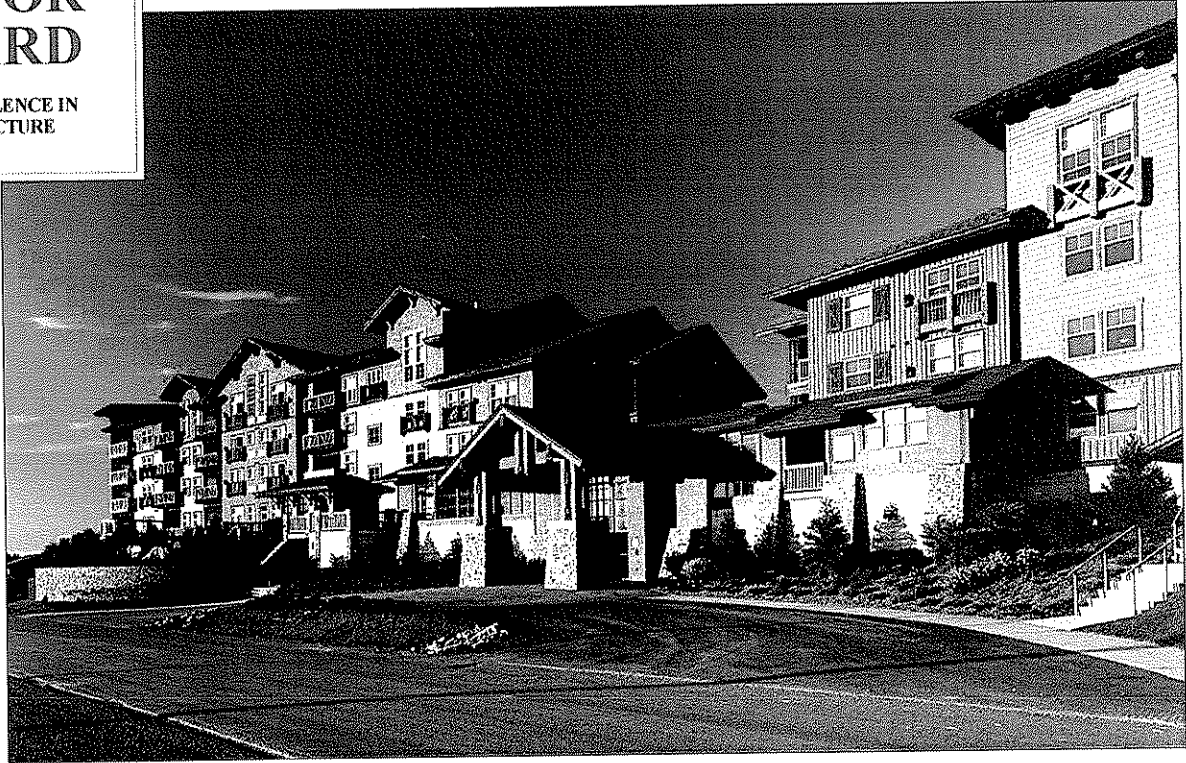


AIA West Virginia

HONOR AWARD

FOR EXCELLENCE IN
ARCHITECTURE

Rimfire Lodge Snowshoe Mountain Resort



Snowshoe Resort, an Intrawest Development resort property, has teamed once again with The Omni Associates – Architects for architectural services in connection with its new Rimfire Lodge, the first phase of the new renaissance of Snowshoe Mountain Resort. The Omni Associates is the coordinating architect for the sizable staff of professionals stretching from Vancouver, BC to Washington, DC. The 112,00 square foot facility will be the new "hub" of activity in the mountaintop village. The "rustic" center will house retail shopping, bar and nightclubs, and restaurants, as well as luxurious condominiums. It boasts a Beautiful 360-degree view of the scenic West Virginia mountain scheme.

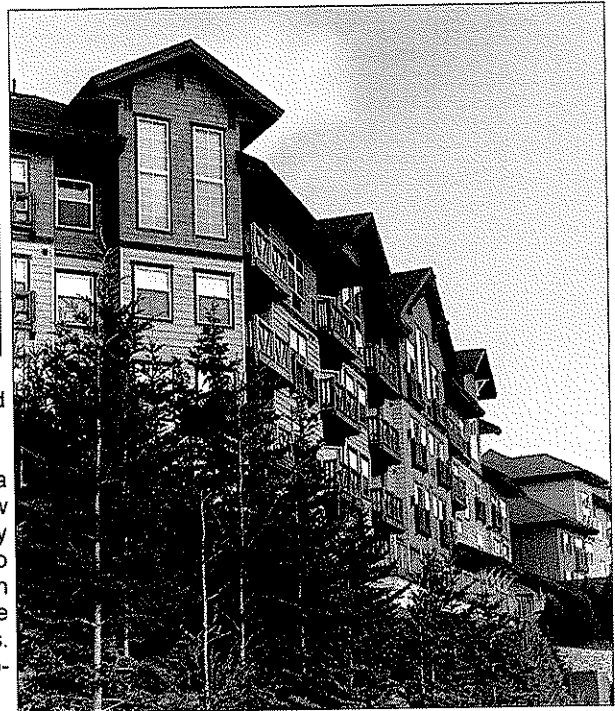
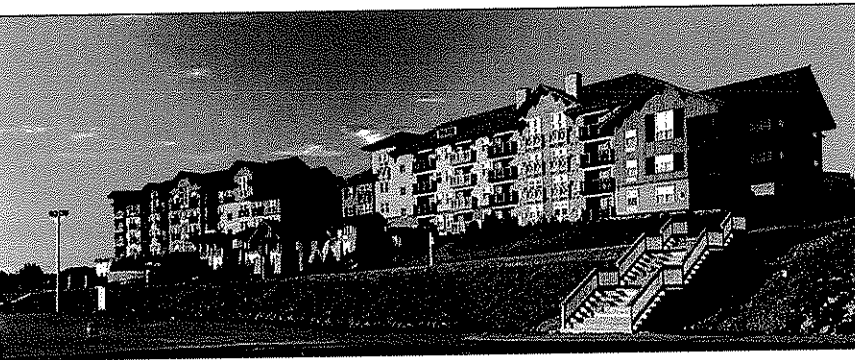
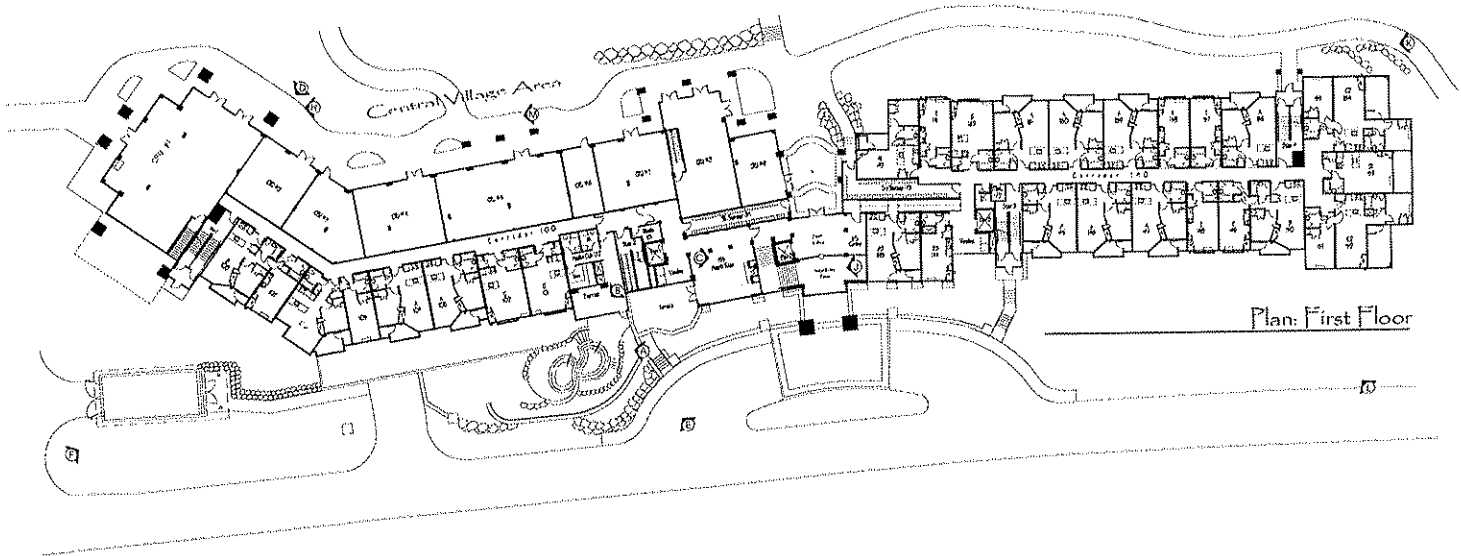
Snowshoe is the largest ski resort in the Mid-Atlantic and Southeastern regions of the United States, with an annual skier visit count that puts the resort in the top five percent of ski areas in North America. Snowshoe/Silver Creek Resort was recently ranked by Snow Country Magazine as one of North America's Top 50 Mountain Resorts. The Omni Associates are both excited and appreciative

Rimfire Lodge
Snowshoe Mountain Resort
Owner: Intrawest
Snowshoe, West Virginia
112,000 Square Feet
Ray Letkeman(Collaborating Architect)
RLA, Inc., Vancouver, BC

Honor Award
Excellence in Design
West Virginia Society of The American
Institute of Architects



Rimfire Lodge Snowshoe Mountain Resort



of our involvement with Snowshoe and with such a progressive and aggressive company as Intrawest.

The new Owners of a major mountaintop resort were about to launch a major full-scale real estate adventure. They were in search of a "New Mountaintop Identity" for a resort that had been in and out of bankruptcy for the last 25 years. The new Owners knew they had a major hurdle to overcome with the problematic history the resort had experienced with developers and the real estate market on the mountain. Many of the prior developers had been from coastal areas and from southern states. Consequently, the condominium projects on the mountain had the appearance of "stack-a shacks" seen at the beaches of the East Coast.

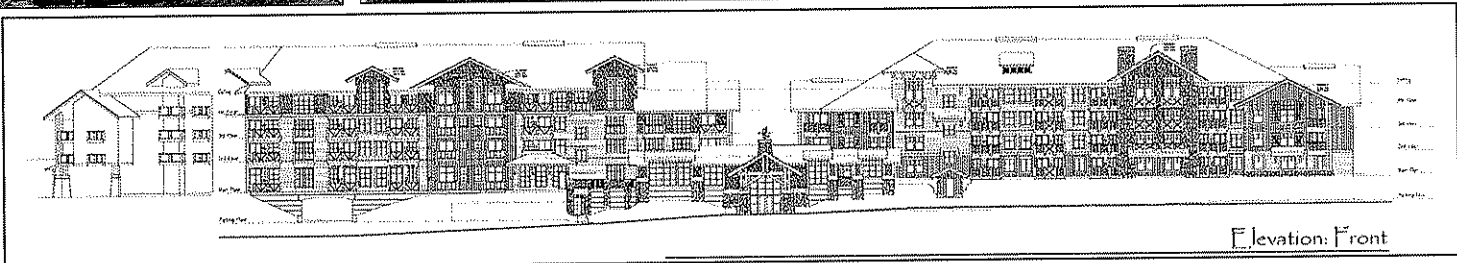
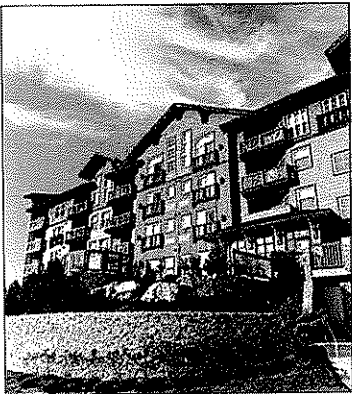
Not only a new image was needed, but also a new concept was essential. The ski market was strong and there were many people, mostly from the Southeast, still coming to the resort for some wintertime recreation. The goal would be to offer more than just winter sports and to be markedly distinct in the new architecture. The Owner wanted a whole new experience presented for total digestion. The existing condominium projects were all stand-alone experiences and spread over a 2-mile stretch of mountain. There was no identity, no sense of arrival and no communal spirit. All that existed were individual buildings totally unrelated to each other.



Rimfire Lodge Snowshoe Mountain Resort

The architecture was to introduce a "New Mountain Style" unlike anything previously seen in this area. It would be the critical introduction of a new Developer and a statement that this developer was a partner and here to stay. It was critical to impart a sense of commitment and permanency. It was to offer the southern buyer a "place in the mountains".

After much analysis and many design charrettes, a concept was initiated to give the mountaintop a central village area that would be a gathering place in both winter and summer. The village would offer a sense of identity and a place of arrival. It would offer commercial space for shopping, gathering, a



place for activity and would also offer real estate for sale within the village proper. People wanted to see activity, a place of their own and to be a part of the activity. The concept would include a series of lodges comprising a village that would appear to be one that had grown over time.

The initial lodge was critical in presenting a concept to the users and buyers. It had to instill the theory of the concept on a small scale until the rest of the village was begun. It was to appear as if it had been built in two different eras. Part of the lodge was to be more rustic and rudimentary in appearance as if built in an earlier time; the other part was to appear as a later addition tied to the old lodge by a connecting lobby. One side of the lodge offered spectacular views to the west. The other side offered a view of the village and its activity. The new lodge was also to be sited to offer protection to the village gathering areas from the ever-present westerly winds and fierce weather.

An economy of construction was necessary due to the real estate price points established. The appearance of the two halves would be differentiated in the details. The success was verified in the volume of real estate sales enjoyed.



Rimfire Lodge Snowshoe Mountain Resort

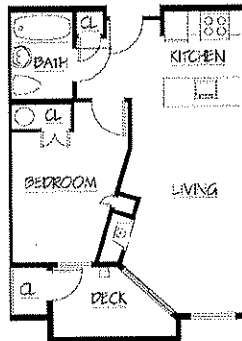
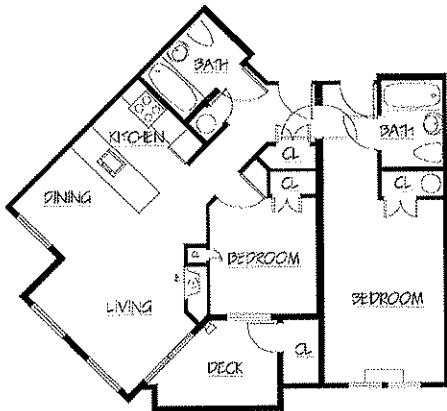
Rimfire Lodge Snowshoe Mountain Resort / Intrawest

Building Amenities

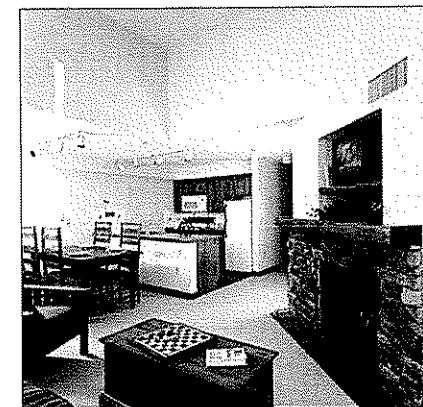
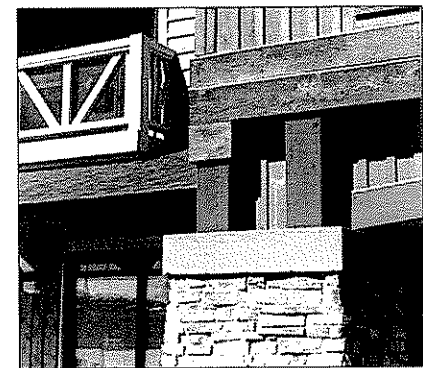
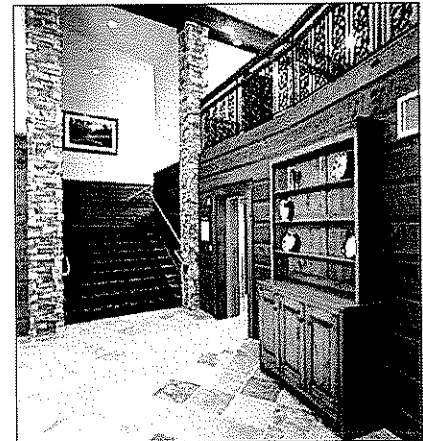
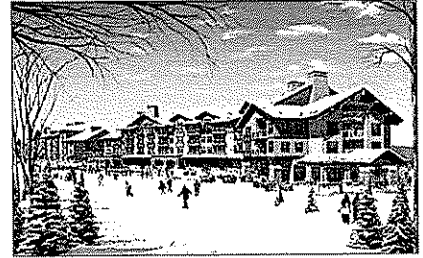
- Located in Ski-in/Ski-out village
- Rustic exterior timber beams & columns
- Private underground parking
- All units have locking owners closet
- Vinyl wall coverings in hallways
- Ski lockers
- Laundry facilities
- "The Basin" - Private hot tubs in landscaped setting
- "Alpenglow" hearth room with rustic stone & wood detailing
- Sprinkler fire protection system throughout building
- Covered decks & patios
- Exterior stone accent & detailing
- Private sauna & workout room
- Wood unit entry doors
- Air conditioning
- Mountain bike storage

Elegant Interior Features

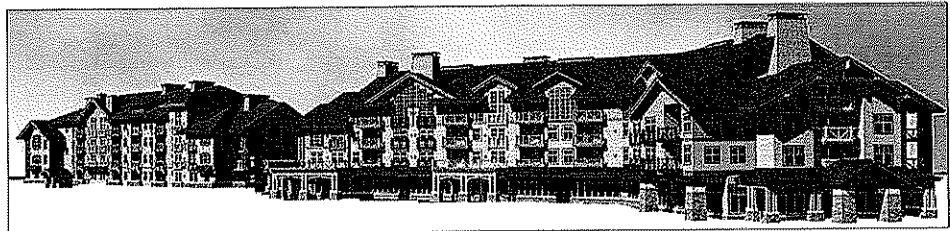
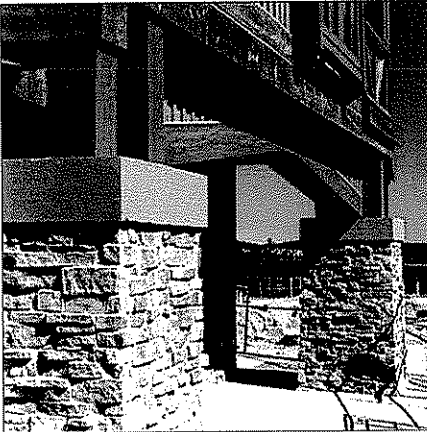
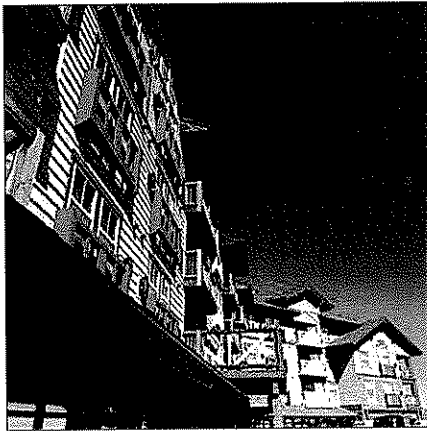
- Natural wood baseboards and window trim bedrooms
 - Knotty pine kitchen cabinets
 - Full size, built-in dishwashers
- Spacious closets with vinyl coated shelving



- Easy care laminate countertops with wood trim
 - Designer pedestal sinks in baths
- 4-burner range with self-cleaning oven in full kitchens
 - Convection-microwave oven in Jr. studio units
- Energy efficient gas fireplaces with solid wood mantel & tile surround
 - Built-in over-the-range microwave
 - Raised panel interior doors
- Berber Carpet in living area & Ceramic tile flooring in kitchens & baths
 - Tile backsplash in kitchen
 - G. E. Appliances
- Convenient data port outlets
 - Garbage disposal



Rimfire Lodge Snowshoe Mountain Resort



Ravenswood Lodge at Snowshoe Mountain



Ravenswood Lodge Snowshoe Mountain Resort Snowshoe, West Virginia

Building One:
20 - Three Bedroom Units
18,853 Square Feet

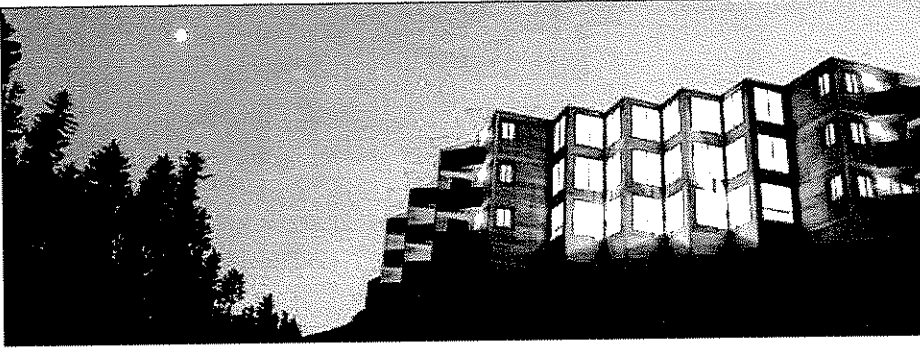
Building Two:
17 - Three Bedroom Units
16,405 Square Feet

Total Project:
37 - Three Bedroom Units
35,258 Square Feet

The Robert C. Byrd National Aerospace Education Center, located near Benedum Airport in Bridgeport, West Virginia, is a national center for aviation technology with degrees available in aviation maintenance technology, avionics maintenance technology, aviation maintenance, and airway



Mountain Conference Center at Snowshoe Mountain Resort



The Omni Associates have worked on a variety of projects at Snowshoe Mountain Resort. One of the first projects was the welcome Center at the base of the mountain.

Snowshoe Mountain Resort Mountain Conference Center

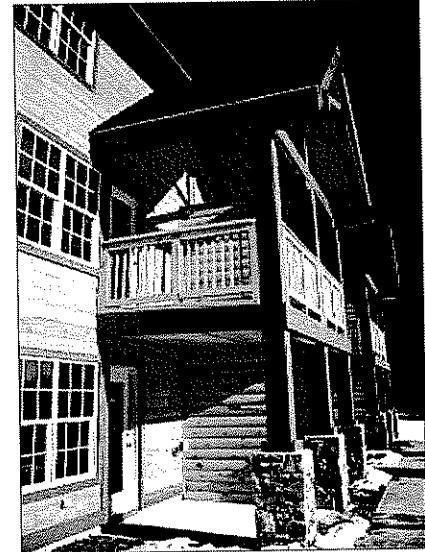
Snowshoe, West Virginia

Although the resort consisted of several different and distinct facilities and condominium projects not designed by The Omni Associates, the owners have relied on Omni to outline and implement a fire safety renovation program for all of the company owned facilities. Individual home owner's associations have retained The Omni Associates to outline and implement major weatherization programs due to The Omni Associate's knowledge of the local conditions peculiar to the mountaintop climate.

The Omni Associates designed the Mountain Conference Center with views to the ski slopes and surrounding countryside. Future condominiums and a base lodge were planned by The Omni Associates to expand on what is already one of the states largest ski resorts.



Camp 4 Condominiums at Snowshoe Mountain Resort



Camp 4 Condominiums
Snowshoe Mountain Resort
Snowshoe, West Virginia
One, Two, &
Three Bedroom Homes

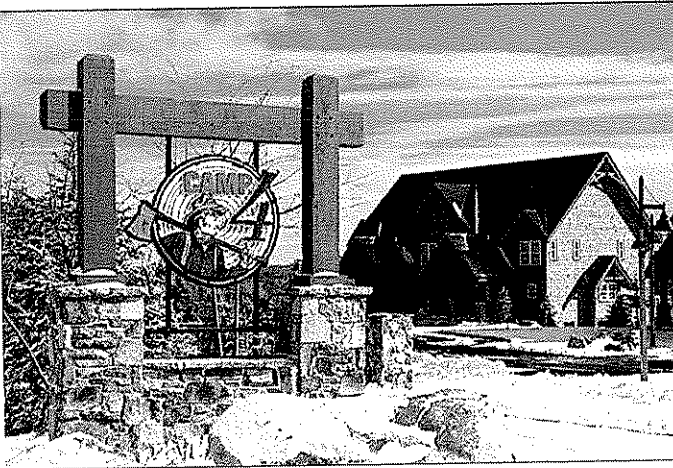


Intrawest, one of North America's leading resort developers, is teaming up with The Omni Associates - Architects to design the first real estate offering at Snowshoe Mountain Resort in over a decade.

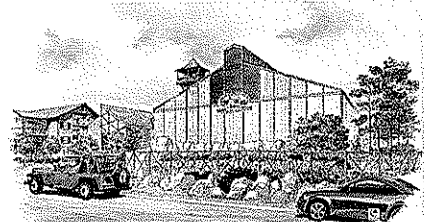
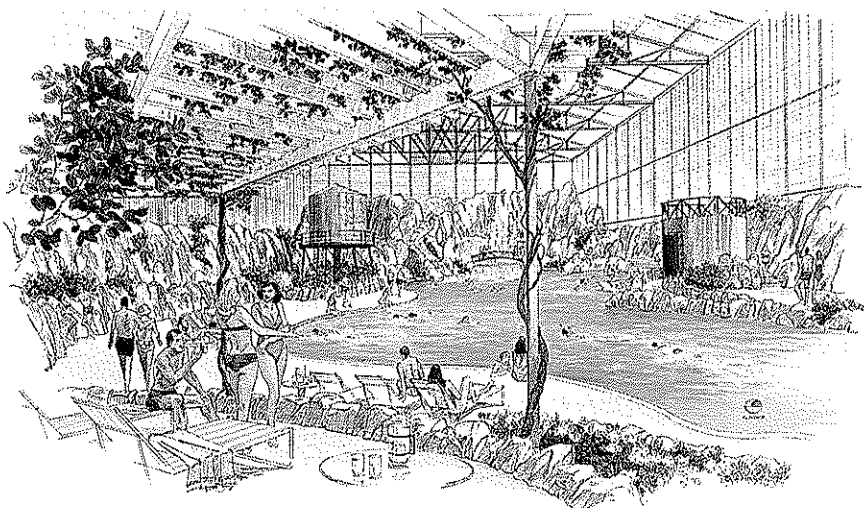
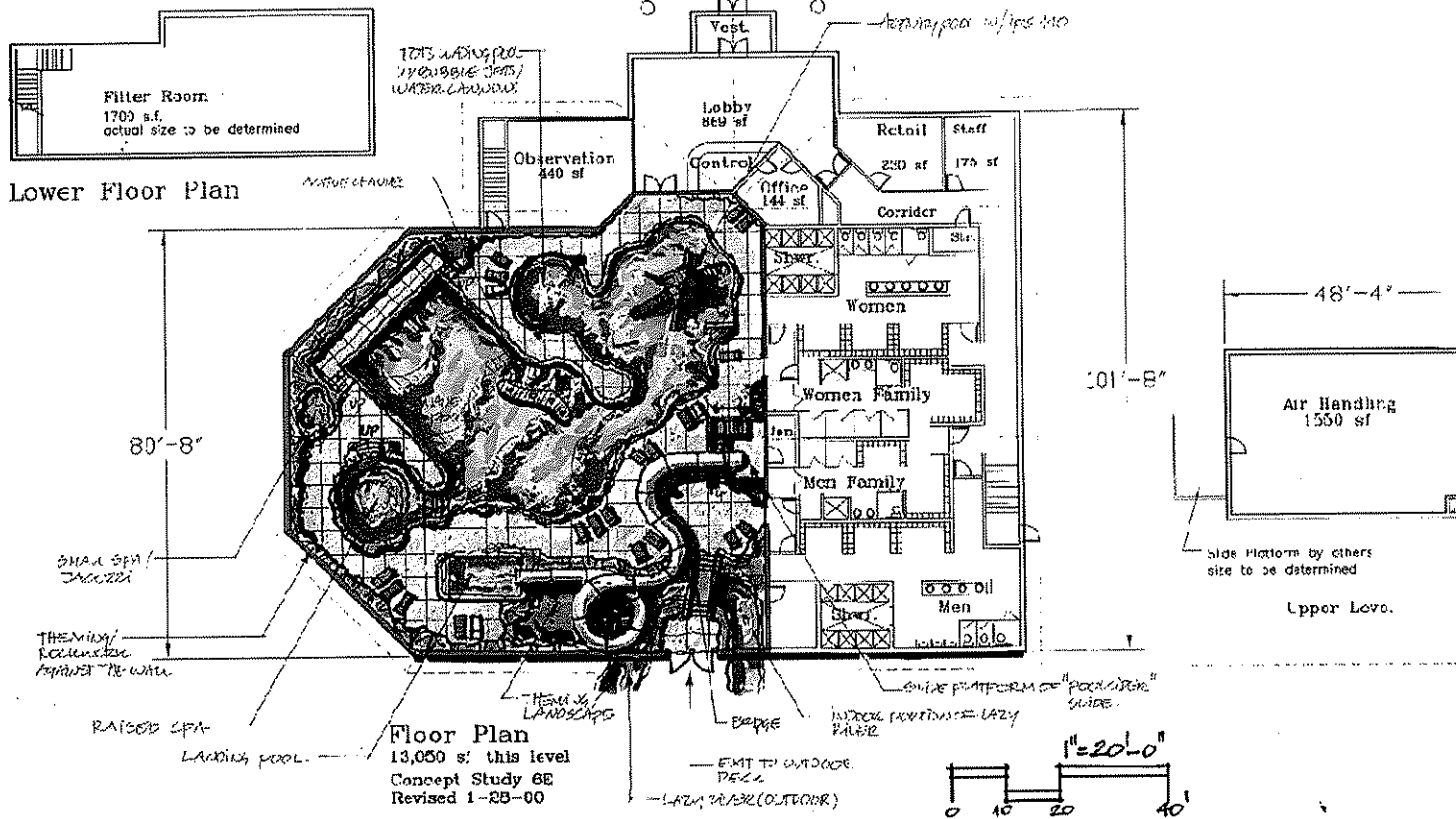
Camp 4, named in honor of the last logging camp in the Black Run area of Snowshoe, is being developed into an exclusive ski-in, ski out community featuring spectacular mountain vistas.

All of the three-story buildings in Phase One incorporates rugged architectural elements reminiscent of the old logging camps of the 1900s, such as peeled logs, stone accents, and broad wood beams

Spacious one, two, and three bedroom homes consist of inviting living areas with fireplaces, stone hearths, contemporary kitchens, pinewood accents and plenty of natural lighting. The three bedroom residences boast a luxurious master suite with a fireplace.



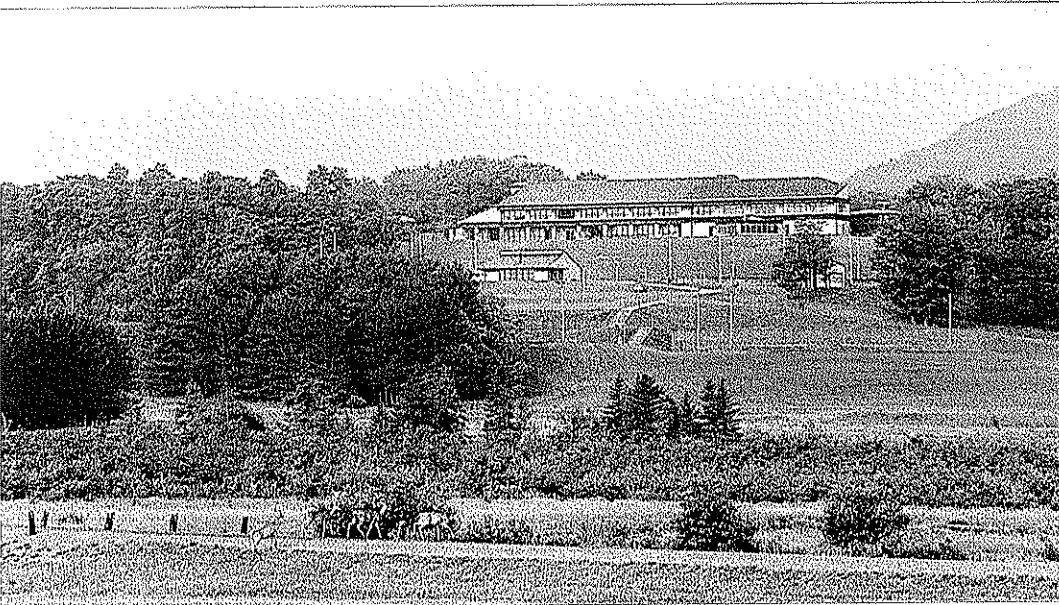
Mountaintop Aqua Center at Snowshoe Mountain Resort



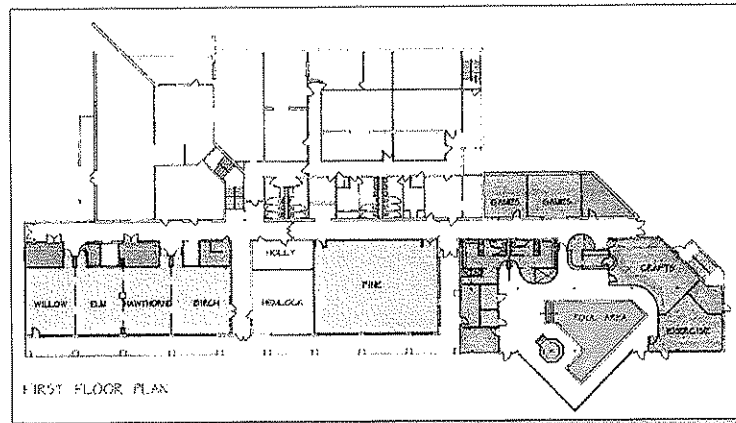
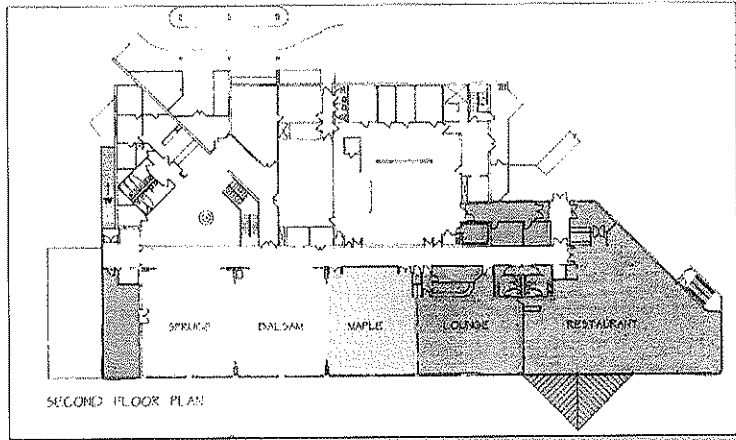
Mountaintop Aqua Center
Conceptual Study
Snowshoe Mountain Resort
Snowshoe, West Virginia



Canaan Valley Resort State Park



**Canaan Valley
Resort State Park**
Main Lodge Addition
Davis, West Virginia
Addition: 18,000 SF
Renovation: 9,400 SF



The Omni Associates designed an 18,000 SF two story addition to the Main Lodge at Canaan Valley State Park. The project was a "fast track" design in which portions of the building were under construction while the final design and construction drawings were being completed.

The addition was designed to incorporate a new indoor pool, enlarged restaurant, expanded kitchen facilities, exercise room, game rooms, and additional conference rooms. Sensitivity to the original design of the building as well as maximizing the view of the park was of the utmost concern.

The design also included 9,400 SF of renovated space within the existing building while the operation of the Lodge was maintained. Renovations included conference rooms, break-out rooms and lounge.





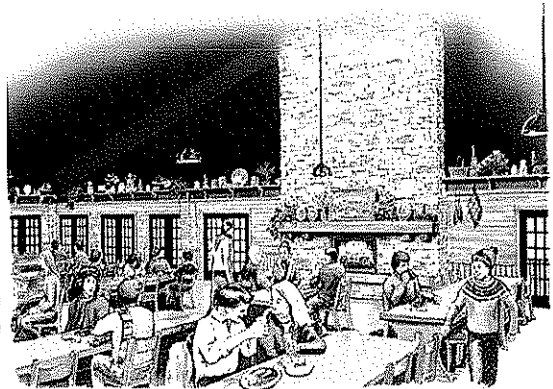
Ski Base Lodge at Canaan Valley Resort



Ski Base Lodge
Canaan Valley Resort State Park
West Virginia
21,000 Square Feet
\$2 million
Park Operated by: Guest Services, Inc.

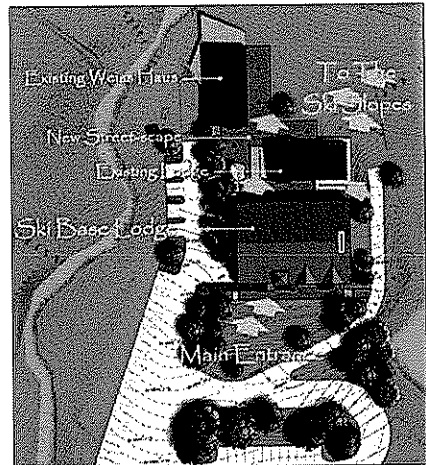
The Omni Associates – Architects, Inc. was commissioned to design and administer construction for a new 21,000 square foot ski base lodge to replace two existing facilities at Canaan Valley Resort. Canaan is a state park in West Virginia. The existing facilities, no longer capable of handling the resorts growing requirements, remain in use to accommodate a new slope-side pub, overnight storage, day-use lockers and ski offices. The new \$2 million lodge is situated on the site to allow easy access of all three buildings for its guests.

The two-story structure accommodates facilities for Canaan’s growing number of guests. The main floor accommodates lift ticket sales, ski and snowboard rental areas, and retail space. The dining area, located on the second floor, can accommodate 500 skiers. Future plans include a deck, located off of the dining area, to act as a gathering area for guests.

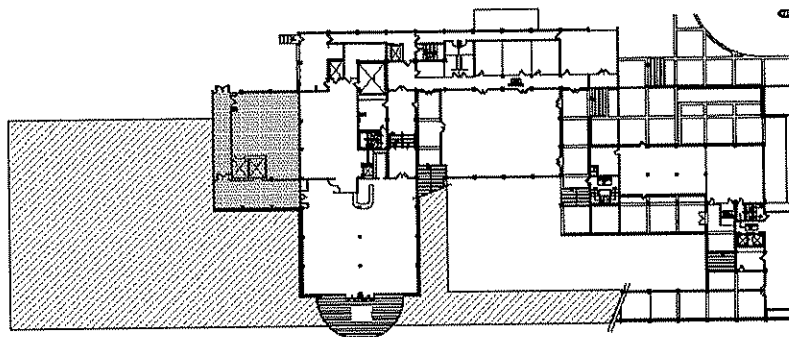


A major goal of the new facility was create a fluid traffic flow for skiers to enter the main entrance of lodge and allow easily access the slopes. This was accomplished by creating “traffic patterns” for guests solely purchasing lift tickets and those whom wish to rent skis or snow boards. A pedestrian area was also created with the placement of the new lodge in relationship to the two existing facilities.

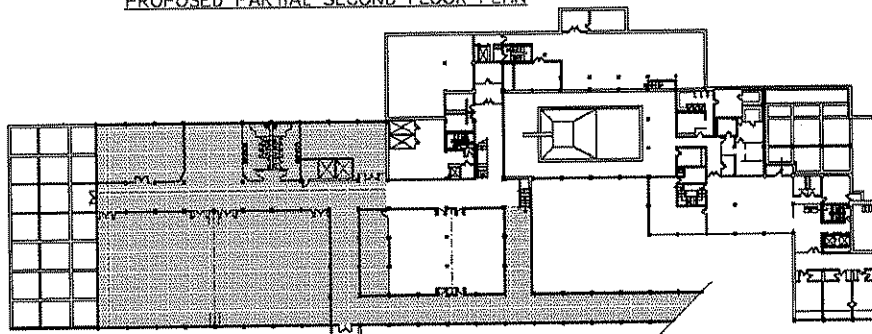
The prefabricated steel structure possesses a “rustic” look, which is emphasized by a variety of building materials. The exterior façade is comprised of a metal roof, stone, and vertical wood shake siding. The dining area also includes a stone fireplace with exposed wood trusses and a vaulted ceiling. A clock tower, housing an interior elevator, is used as a key building design element.



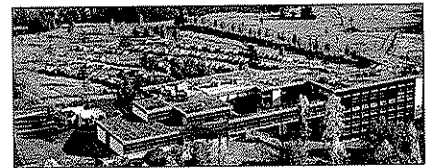
McKeever Lodge & Cabin Expansion at Pipestem State Park



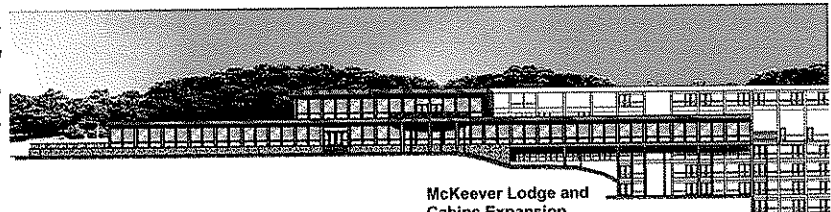
PROPOSED PARTIAL SECOND FLOOR PLAN



PROPOSED PARTIAL FIRST FLOOR PLAN



The Omni Associates – Architects, Inc was selected to perform an economic feasibility and design study for the expansion of the McKeever Lodge and associated cabin accommodations at Pipestem Resort State Park, Pipestem, West Virginia.



McKeever Lodge and Cabins Expansion
West Virginia Department of Natural Resources
Pipestem Resort, West Virginia
Service Provided: Economic Feasibility and Design Study

The study included performance of a Design Services Study to evaluate the expansion of...

Conference and Meeting Facilities: The design of the conference facility considered three conceptual strategies: campus design, renovation design, and addition design.

Guest Rooms: A six story 110-room addition to the existing guest room addition. The location of this addition minimized the disruption of the existing guest rooms and provided dramatic views of the canyon.

Parking: Expansion for an additional 113 cars

Sewage Treatment: The addition of a 10,000-gallon surge tank.

HVAC Systems: Upgrading to a digital HVAC control system for monitoring and controlling the major components of the existing systems as well as any new HVAC systems. Resulting in significant energy savings.

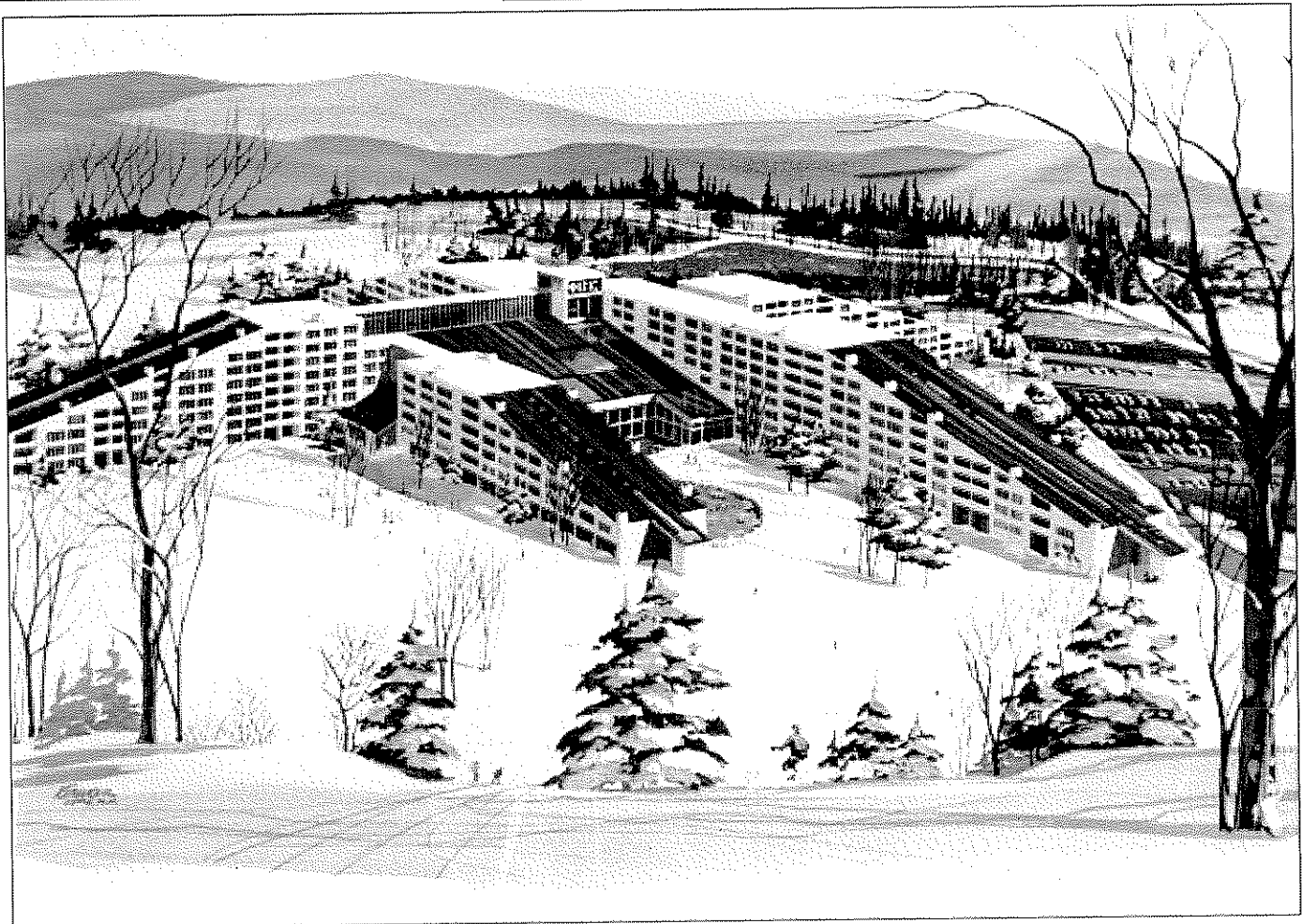
Cabins Expansion

Geotechnical Exploration

Detailed Economic Feasibility Analysis to determine a "bottom line" return on investment.



Silver Creek Resort Ski Lodge and Hotel



Initial conceptual design by Dan Leuchauer AIA & Associates and a portion of the Silver Creek Facility was started prior to the Omni Associates being retained by the FSLIC to assist the facility. Although hampered by lack of adequate funding for the project and extremely tight building schedule, The Omni Associates provided services on site 14 hours a day, 7 days a week for completion of the 318,000 square foot facility. Major fore safety and other concerns of the FSLIC were outlined and coordinated by Omni.

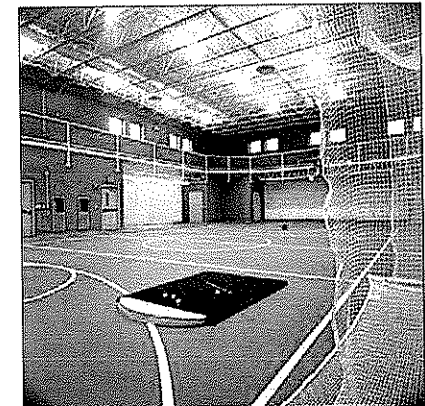
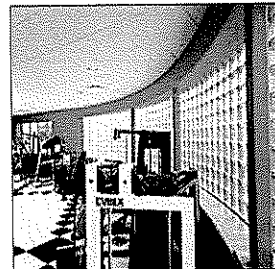
**Silver Creek Resort
Ski Lodge and Hotel**
Slatyfork, West Virginia
318,000 Square Feet



HealthWorks Fitness & Rehabilitation Center

HealthWorks
Fitness & Rehabilitation Center
Morgantown, West Virginia
37,000 Square Feet

Merit Award
Achievement in Design
West Virginia Society of The American
Institute of Architects



HealthWorks serves four primary areas of physical therapy: Rehabilitation, Occupational Therapy, Sports Medicine and General Wellness. The program, therefore, has to meet the demands of the construction worker, the football player, the fitness addict and the person recovering from surgery. With an adjacent retirement community as well as several hospitals in a residential area, the building serves all from the young to the more mature.

The narrow site dictates that the building be hemmed in between the east and west property lines creating north and south areas for parking usage. The front of the building is beveled to have the entranceway turned to the main avenue at the same angle. This also allows the building signage and space frame canopy to signal the public to the facility that is behind adjacent buildings. In typical West Virginia fashion, the sloping site requires a retain-

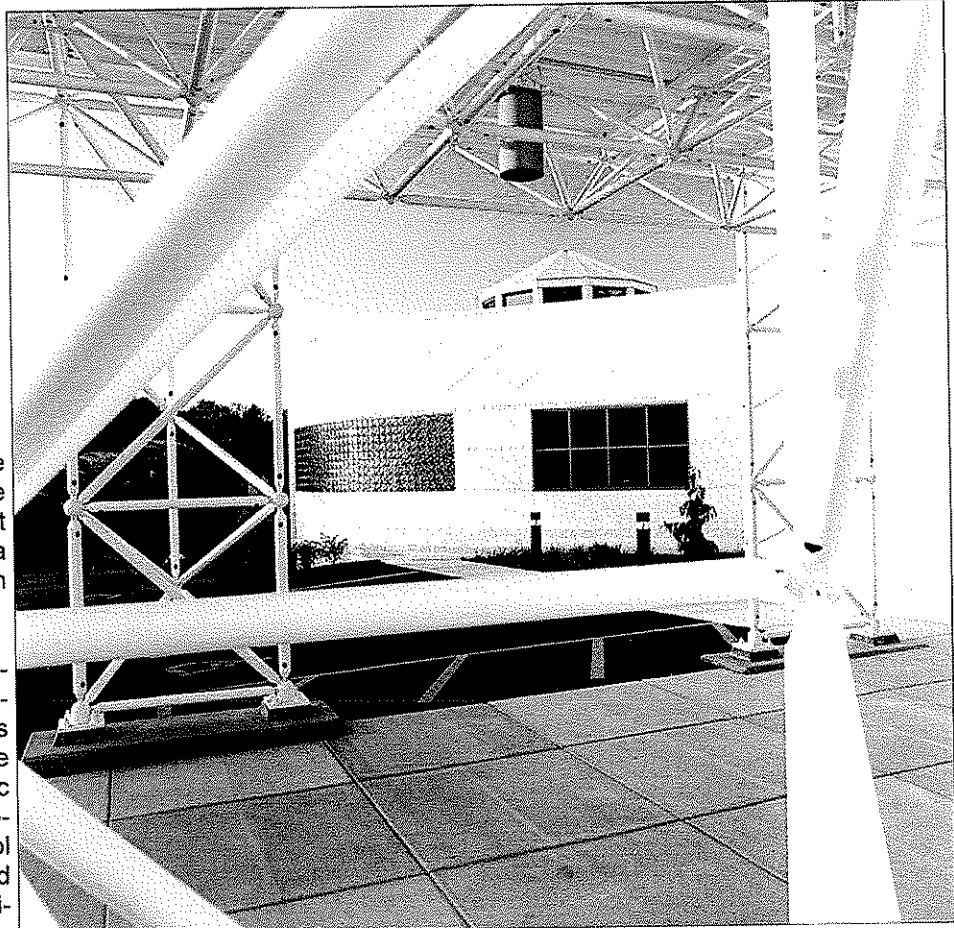


HealthWorks Fitness & Rehabilitation Center



ing wall along the eastern side while allowing the west to open up to a two-story section of the building.

The interior is divided into inter-connecting zones to accommodate the various public uses of the program. The control point is organized around the administration area at the entrance. From here the receptionist can direct the type of visit, page therapists, monitor waiting and circulation and obtain scheduling and financial information.



The area directly in front is multiple-use that can be segregated for evening and weekend times when the rest of the facility is closed. The main classroom has an aerobic flooring system and a full-wall mirror. Adjacent is the children's play area so parents can work in the class and bring the kids along. Also attached are lounge and toilets that serve the classroom and the staff area. This flows out to an outdoor area as an extension of the dining space.

The main treatment room serves as a multiple-functioning space. The exercise equipment is for both the wellness users and for the rehab strengthening testing. It is important that daylight be incorporated into the aspect of fitness and wellness. The open clerestory over the exercise room floods the room with daylight and forms a center with which to surround the equipment in the space. It has a perimeter bulkhead that holds suspended monitors so people can watch TV programming or instructional videos.



HealthWorks Fitness & Rehabilitation Center

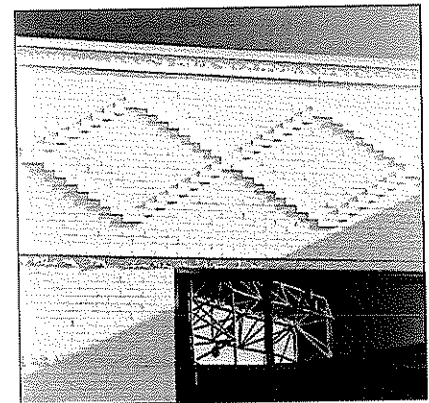


Hydrotherapy incorporates traditional whirlpool tubs and two in-ground pools. The deep pool is for laps and water jogging and the shallow one for water aerobics and mobility training. The pool also introduces daylight with the star-shaped glass block windows that peek above the retaining wall.

The training gym is used for sports medicine rehabilitation so athletes can test their ability after therapy training. An upper-level walking track allows others to use the space while the floor is occupied. High set windows again bring daylight into the space and provide a visual release for the track users.

Occupational therapy is performed in the hand therapy area and the work hardening room. The work hardening room can be modified to simulate construction activities, warehouse utilization or any work environment use to assist in the rehabilitation of a work-related injury.

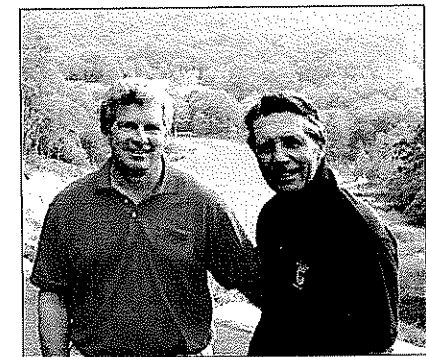
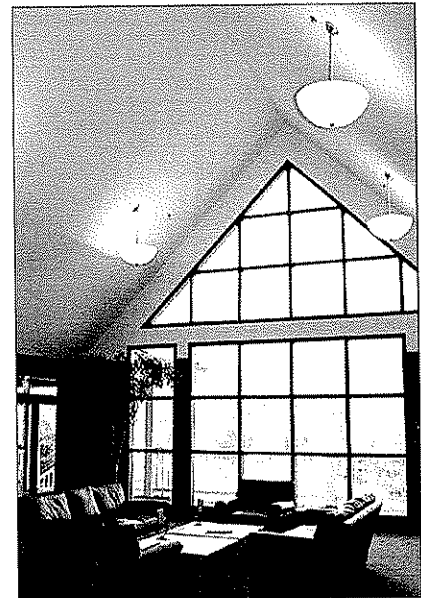
The exterior massing wraps around the interior program spaces. The detailing is traditional tripartite layering with a contemporary expression using the white masonry, glass block and tracery cornice work. The space frame canopy is an indicator of the tubular steel equipment inside and is visible from the interior as well. Glass block also becomes a reference in various interior details at the pool, the waiting surround and the treatment room.



The Raven Golf Course Clubhouse at Snowshoe Mountain Resort



The Raven
(formerly know as Hawthorn Valley)
Golf Course Clubhouse
Snowshoe Mountain Resort, WV
Interior: 11,038 Square Feet
Deck: 2,000 Square Feet



Stephen Barnum, AIA, club house architect photographed with course designer, Mr. Gary Player

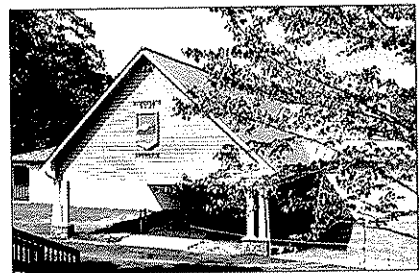
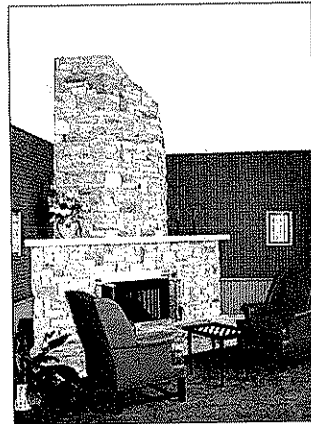
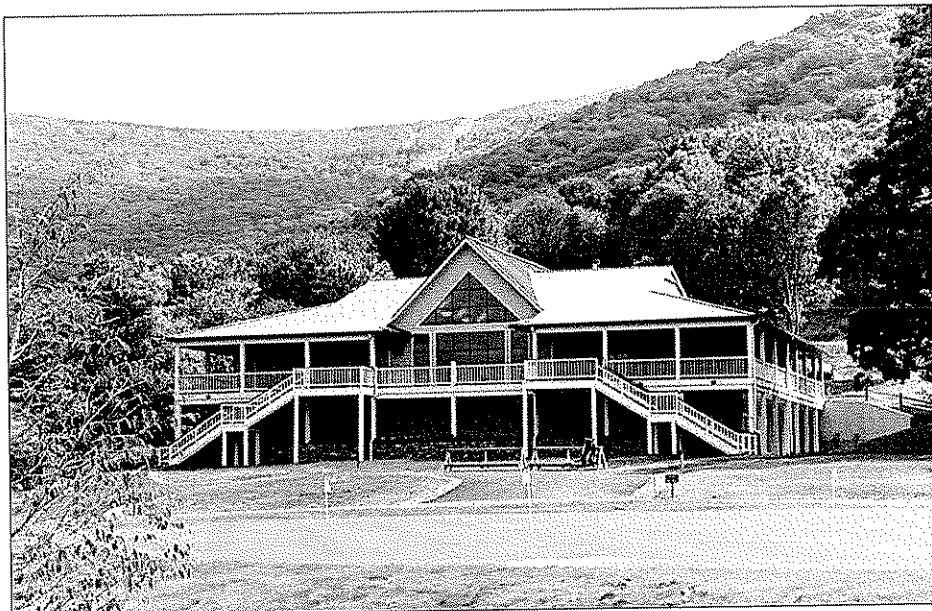
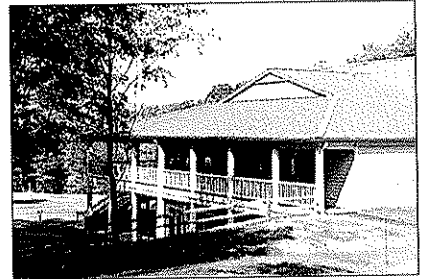
**Honor Award
Excellence in Design**
West Virginia Society of The American Institute
of Architects

The Omni Associates designed a new golf clubhouse for the 18 hole Hawthorn Valley Golf Course recently completed and designed by Gary Player Associates. The entire building is surrounded by spacious decks which capture the views of the golf course and mountain vistas. The exterior decks and screened in porches offer restful relaxed spaces to enjoy the mountain air.

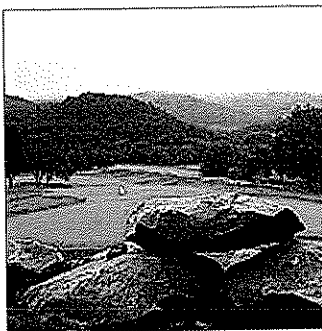
The construction was performed on a fast track basis allowing the Owner to start construction in early March with an ambitious July completion date. The Contractor, Branch & Associates, with whom The Omni Associates had a very rewarding working relationship, completed the project on time and on budget. The successful team relationship of The Owner, The Contractor, and The Architect made this project not only successful but also enjoyable. The completion of the clubhouse is another of the many projects The Omni Associates has enjoyed at Snowshoe Mountain Resort.



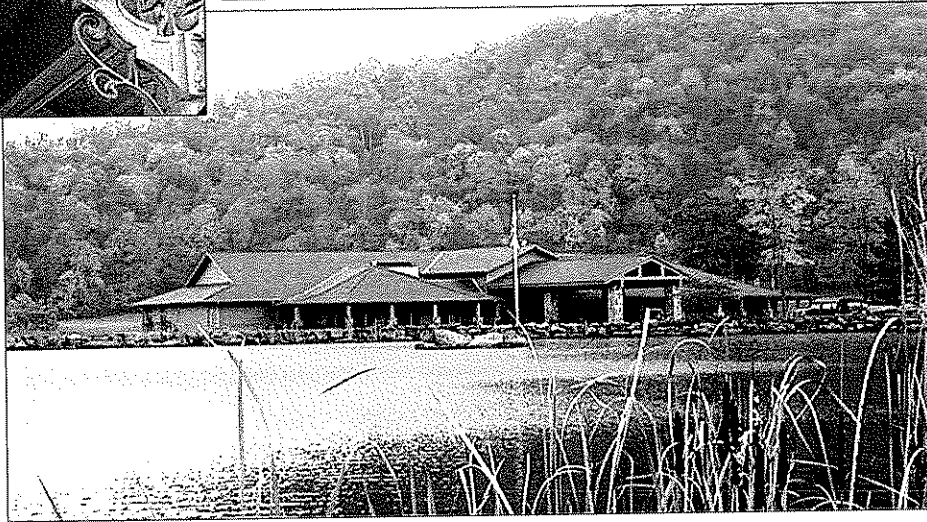
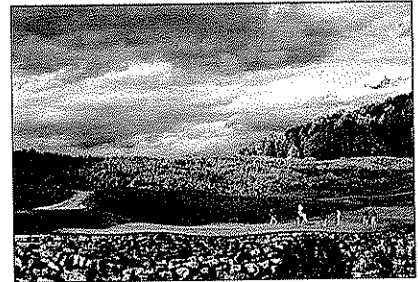
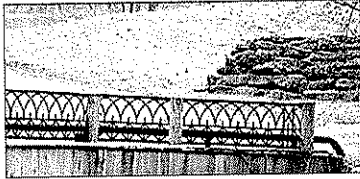
The Raven Golf Course Clubhouse at Snowshoe Mountain Resort



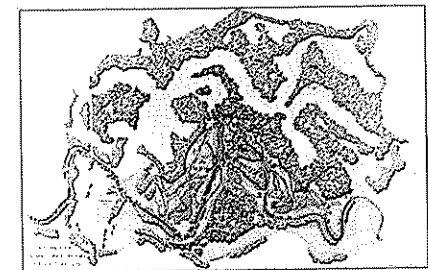
- ◆ Golf Digest - 13th Hole listed on the top 18 holes in the nation
- ◆ Golf Digest - Ranked #86 in the nation's top 100
- ◆ Golf Week - Ranked #1 in W. Virginia
- ◆ GCSAA - Environmental Steward Award
- ◆ Golf Week - 2001 Top 100 Modern Golf Courses - #62
- ◆ Golf Week - 2002 - Top 100 Modern Courses, #54
- ◆ Golf Week - #1 Public Access Course in West Virginia



The Pete Dye Golf Club Clubhouse



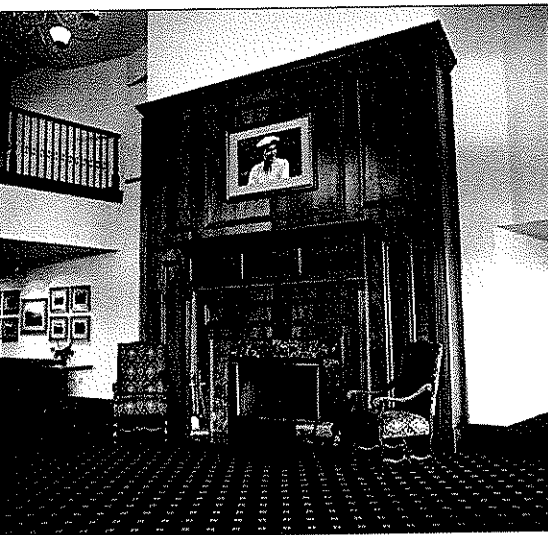
Pete Dye Golf Course Clubhouse
Bridgeport, West Virginia
41,183 Square Feet



Officially opened in 1995, the Pete Dye Golf Club is already ranked as the 2nd Greatest Golf Course of the Modern Era. Called the "Shangri-la of Golf" by one journalist, the course reflects a true integration of the game and the environment.

The course features remnants of coal mining activity, including exposed, strip mined high walls, a rotary car tippie, coal-laden mine cars, a cart path through a once active deep mine, and waterfalls that originate from deep mining activity of days gone by.

The Pete Dye Golf Club is a private golf club retreat with membership by invitation only. Corporate and individual members from 25 states and 5 countries form

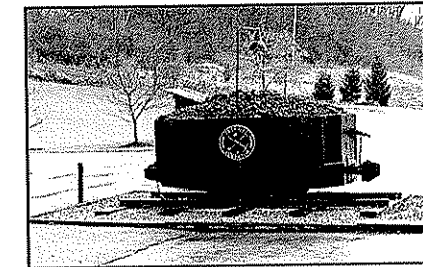
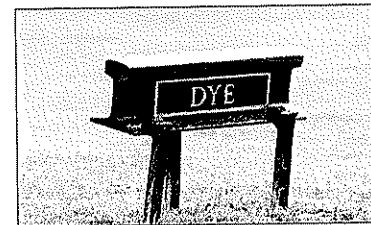
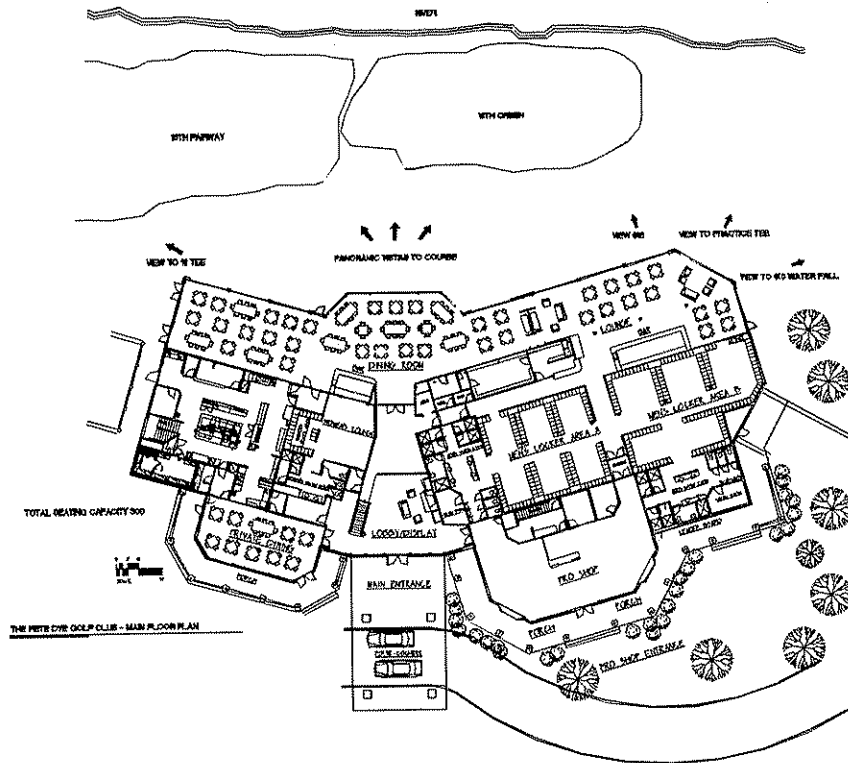


the core of the Club's membership.

In keeping with a traditional golf club concept, the club's amenities include a practice facility, clubhouse and lodging. The practice facility covers 35 acres and includes multiple teeing areas, both green side and fairway practice bunkers, putting greens, pitching and chipping areas, and private teaching areas. The 24,000 square foot clubhouse offers spectacular views of the course complete with private meeting and dining experiences. Members and guests staying overnight can choose from a variety of well-appointed lodges and townhouses, all within walking distance of the clubhouse.

(Source: <http://www.petedye.com/aboutus.cfm>)

The Pete Dye Golf Club Clubhouse



The Pete Dye Golf Club has been honored by the following:

Links Magazine

- ◆ Featured in the "Modern Classic" section of August issue (1995)
- ◆ Rated in the Top 10 Courses of the last decade (1997)

Golf Week Magazine

- ◆ Rated No. 2 in 1999, and No. 4 in 1998, 2000, 2001 in the Top 100 Courses of the Modern Era (chosen from among 12,000 courses built since 1960)

Golf Magazine

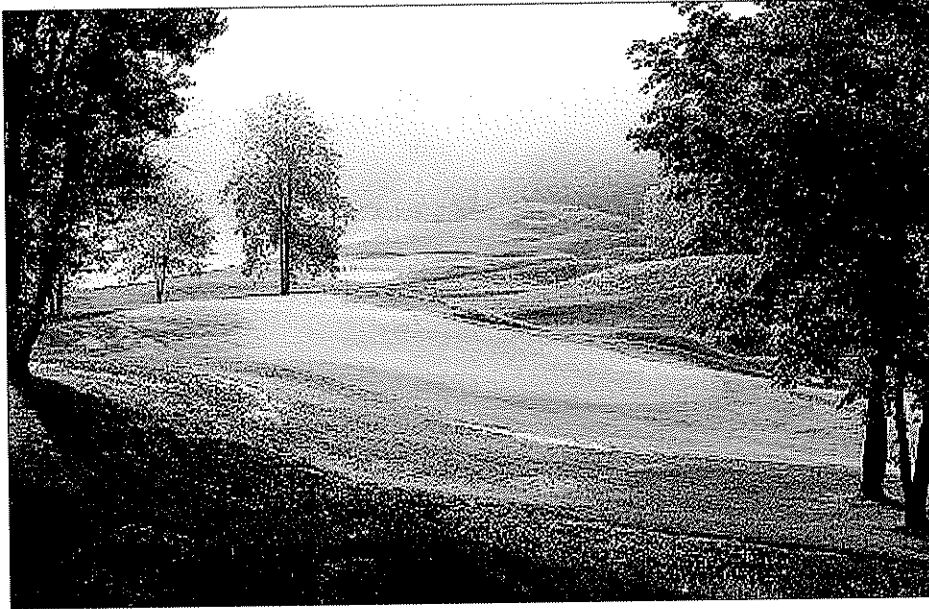
- ◆ Selected as a "Hidden Gem" (1995)
- ◆ Rated as one of the Top 100 Courses in the United States (In the Club's first year of eligibility - 1997)
- ◆ Hole #2 is selected as one of "The 500 Best Golf Holes in the World" (1999)

Golf Digest Magazine

- ◆ Ranked No. 3 in America's Best New Private Courses (1995)
- ◆ Ranked No. 1 Golf Course in West Virginia every year since 1997. Selected as a "Hidden Gem" (1995)
- ◆ Rated as one of the Top 100 Courses in the United States (In the Club's first year of eligibility - 1997)



The Pete Dye Golf Club Clubhouse



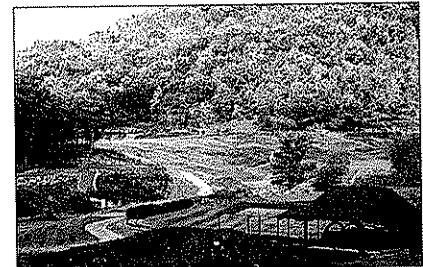
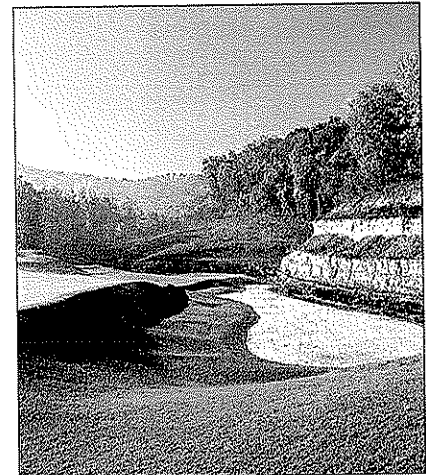
The course at the Pete Dye Golf Club began centuries ago when Mother Nature created a piece of land that is typical of West Virginia. The genius of the architect transformed that natural beauty into a shrine to the honorable game of golf. The course occupies 250 acres, nearly twice the land utilized for the average golf course design. A like amount of undeveloped land surrounds the course providing a buffer that protects the environment ... a commitment made by the founders as they started this journey in 1978.

Nature has created a framework surrounding the course that is truly unforgettable. Each hole is etched into a player's memory providing perhaps the most important testament one can give any golf course ... total recall of each and every shot at the completion of play and for years to come.

The course will play from 5,127 yards to 7,166 yards, depending on which of the five sets of tees are played. A pleasurable experience for golfers of all levels is ensured with wide fairways and landing areas, unobstructed green approaches, and a safe route on every hole. For those who seek a challenge, the safe route can be traded for a variety of risk-reward shot making opportunities.

After experiencing the Pete Dye golf course, the golfer is sure to leave with a heightened sense of the game's relationship with the environment, a stronger sense of competitive spirit and a feeling that can only be matched by "another round".

Source: <http://www.petedye.com/aboutcourse.cfm>



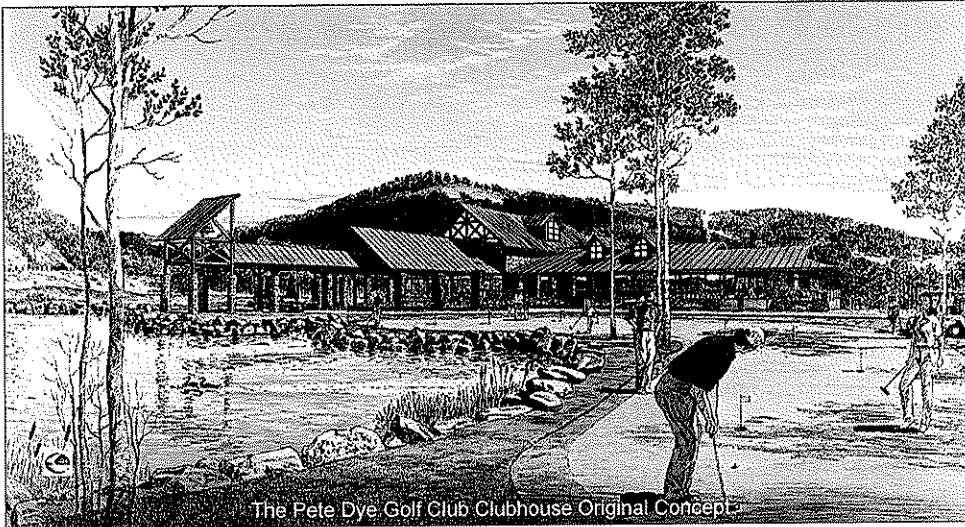
The Pete Dye Golf Club Clubhouse

"Rustic Elegance is the conceptual theme for the new club house and has been derived from the artistic images of Pete Dye's creation."

Stephen A. Barnum, AIA
Clubhouse Architect (photo left)

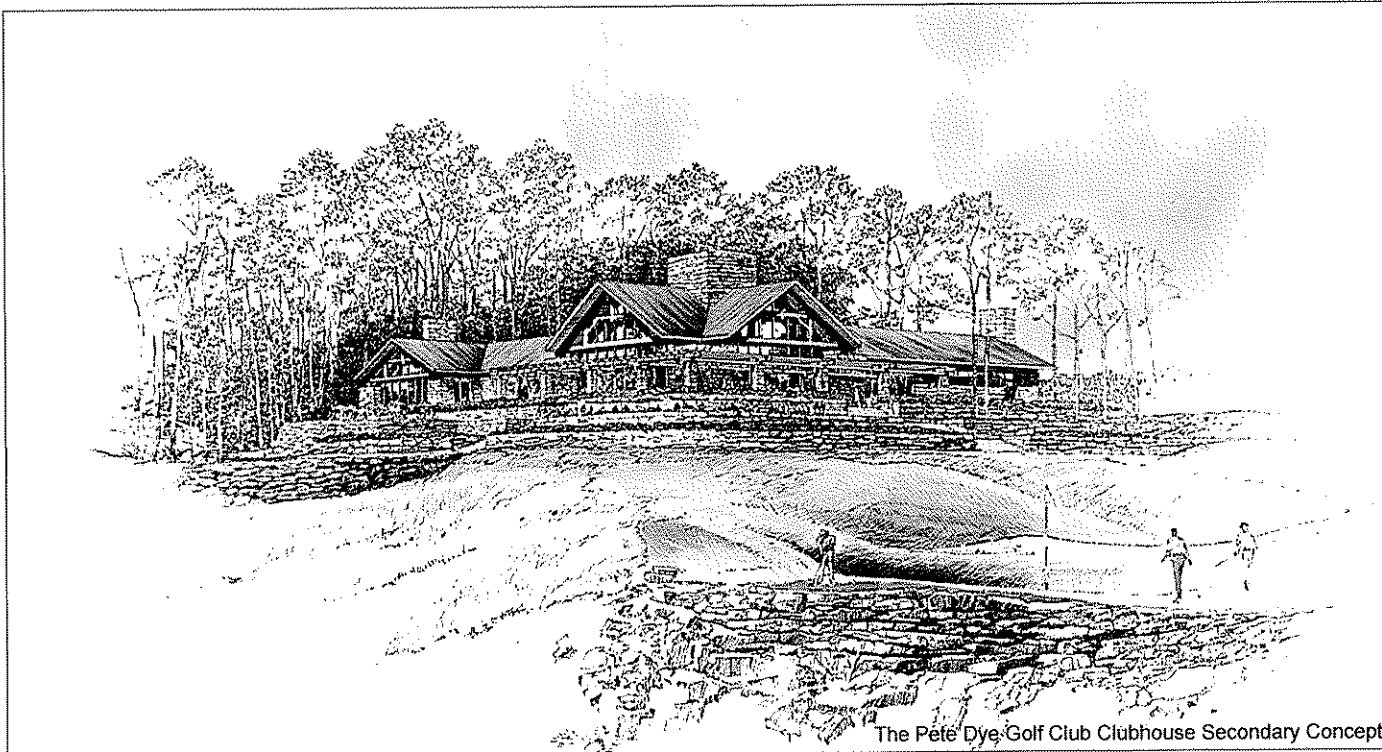
"I am very proud of this course and believe it will be recognized as one of the great golf courses of the world. This golf course is a very special place."

Pete Dye
Course Architect (photo right)



The Pete Dye Golf Club Clubhouse Original Concept

Mr. Barnum's original concept for The Pete Dye Clubhouse remains his favorite. It was "a clubhouse that would only work there", with touches of the "Rustic Elegance", like the course itself. "The course has a strong connection to the mining industry and the Clubhouse should as well". "A rusty roof, rust stained stone and rough timber accents should dominate the building."



The Pete Dye Golf Club Clubhouse Secondary Concept



The Pete Dye Golf Club Clubhouse



The Pete Dye Golf Club Clubhouse Original Conceptual Image Study



Stonewall Resort Golf Clubhouse

An Arnold Palmer Signature Course

Stonewall Resort
Awarded
"Top Ten"
Best New Course
in North America



When the U.S. Army Corps of Engineers dammed the West Fork River in the mid-1980s to create Stonewall Jackson Lake within the eponymous state park, little did they know that another general, a golfer who commanded an army of his own, would arrive years later to fashion an inspired layout in the foothills of the Alleghenies. Located two hours south of Pittsburgh, Stonewall Resort is part of a \$50 million public-private project that was 25 years in the making and includes a handsome Adirondack-style lodge set along the shores of a 26-mile-long lake that holds trophy muskellunge.

Stonewall Resort
Golf Clubhouse
An Arnold Palmer Signature Course
Roanoke, West Virginia
8,044 Square Feet

Timber Frame Consultant:
Sunset Structures LTD

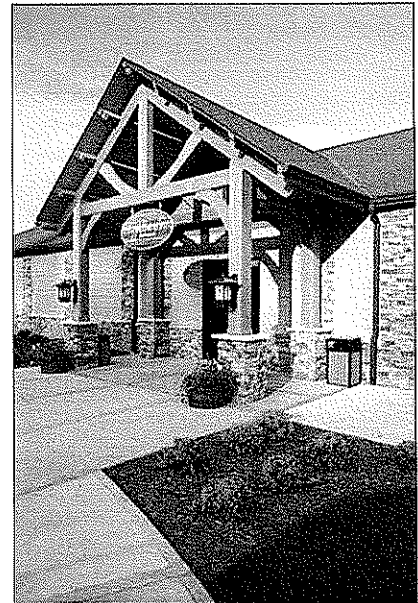


Marked by rolling hills and a maze of



Stonewall Resort Golf Clubhouse

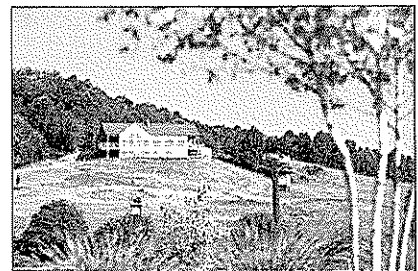
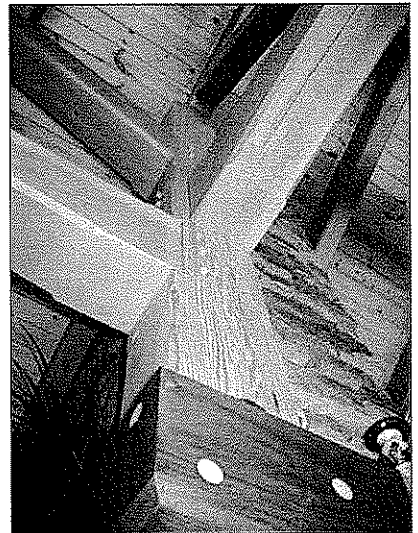
An Arnold Palmer Signature Course



valleys, the all-bentgrass course, with six sets of tees ranging from 7,149 to 4,921 yards (par 72), is backdropped by forested knobs and broken peaks characteristic of the Mountain State. The greens, many of them elevated and small to medium in size, are among the most subtly contoured surfaces Palmer Course Design has produced.

Stonewall's backbone is its great collection of par fours, notably the ninth, a left-to-right dogleg that plays to a perched, bunkerless green. The back nine departs the lakeshore grove of old pecans planted by a Southern homesteader more than 100 years ago. These pecans, along with a creek and wetlands, divide the fairway at the clever par-five 12th, while the par-four 15th occupying the high point of the course, looks like a stretch of the Blue Ridge Parkway paved with turfgrass -- mountains and ridges as far as the eye can see, with nary a home in sight.

Stonewall, which builds in interest and elevation as the round progresses, brings players home via the majestic par-five 18th, which climbs uphill to a well-bunkered green set in an amphitheater. The lodge-style clubhouse, overlooking the lake and hotel, is slated to open in June. Morning, when the mist clings to the hollers, is the time to play this charming, homespun course located near native son Stonewall Jackson's birthplace -- and not far from General Palmer's home in Latrobe.



Source:
Brian McCallen
Golf Magazine, March 2003



Omni Associates - Architects, Inc.

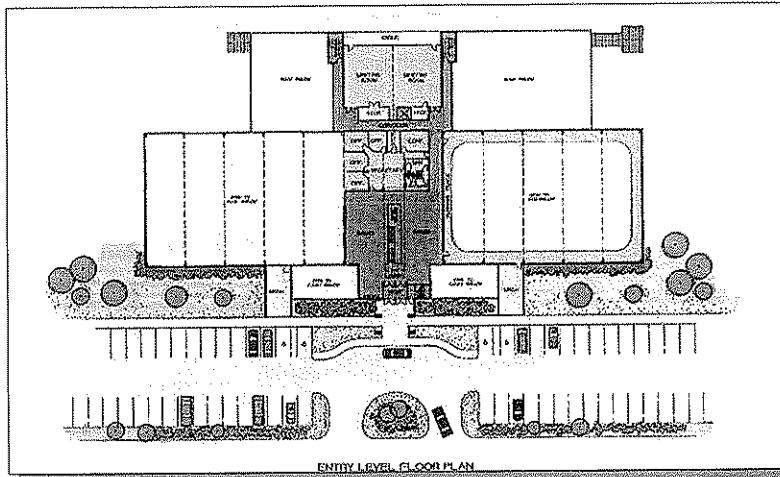
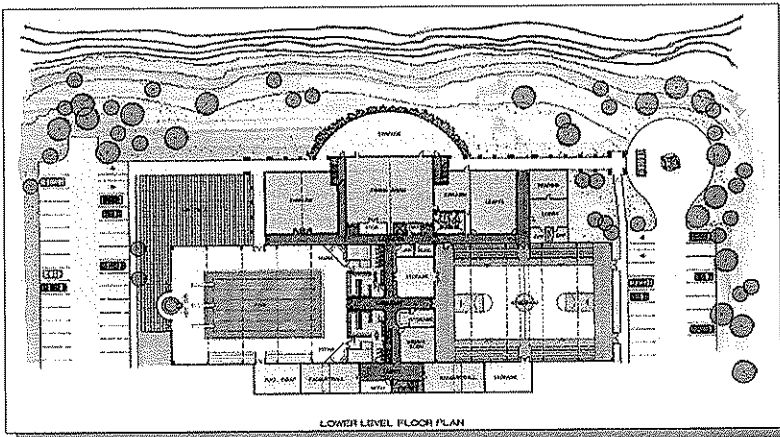
BOPARC Family Recreation Center

Board Of Park and Recreation
Family Recreation Center
Morgantown, West Virginia

Conceptual Study
Existing: 3,600 Square Feet
Addition: 5,600 Square Feet
Morgantown, West Virginia
Lower Floor: 39,900 SF
Entry Floor: 10,640 SF

The Omni Associates designed a multi-use family recreation center on a wooded site in one of BOPARC's existing parks. Being on a sloping site, the main entry is on the upper floor and contains game rooms, meeting rooms and offices.

From the lobby, you can look down into a full size basketball court and an Olympic size swimming pool. The pool area has indoor and outdoor sitting areas. The unique feature of the pool is the retractable roof allowing the sunshine to come inside during good weather

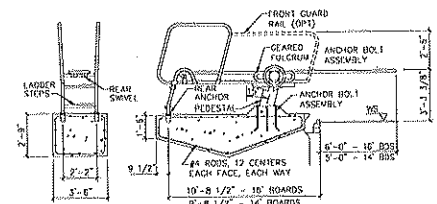
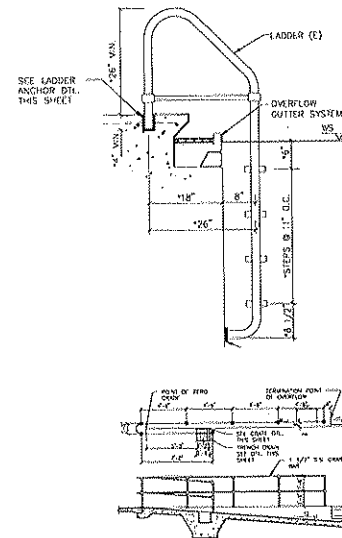


BOPARC Marilla Pool Krepps Pool



Marilla Pool

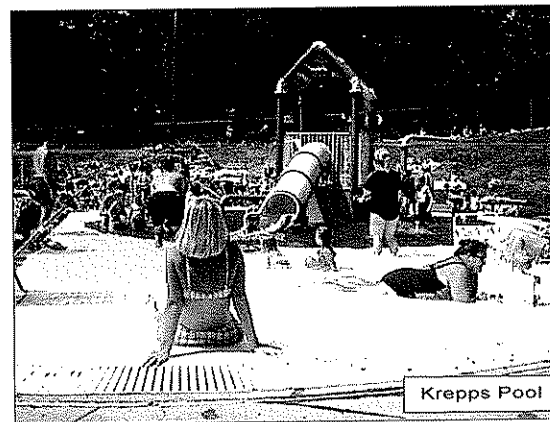
BOPARC
Marilla Pool
Krepps Pool
Morgantown, West Virginia



Marilla Pool



Marilla Pool



Krepps Pool



Emerald Isle Retirement Community



Emerald Isle Retirement Community is designed as an All-Season Resort to accommodate the active retiree. Unfortunately, the funding for this project did not evolve.

Emerald Isle Retirement Community
Emerald Isle, North Carolina
To be Phased

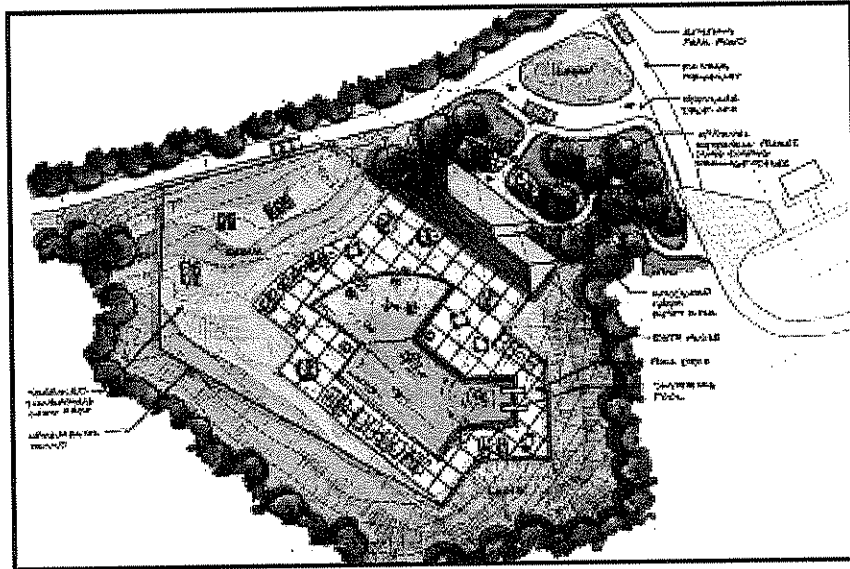
The complex enhances the natural beauty of dunes and vegetation on the southern shores of Emerald Isle, North Carolina. The south facing the beach is the only location along the east coast where you can watch the sun rise and set on the ocean.

The complex was designed in flexibility for expansion. Phase One was to include 100 living units with all the amenities to include Conference Center, Restaurant, Health Club, Spa, Pools, Shops, Recreational Facilities, and a complete security system.



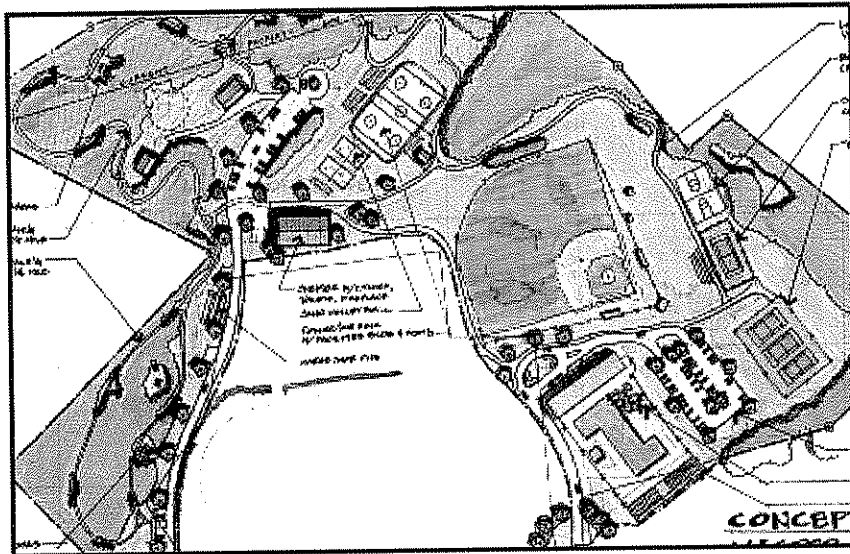
▶ **BLUESTONE STATE PARK**

TERRADON was responsible for site master planning through construction documents for a new swimming pool at Bluestone State Park in Summers County, West Virginia.



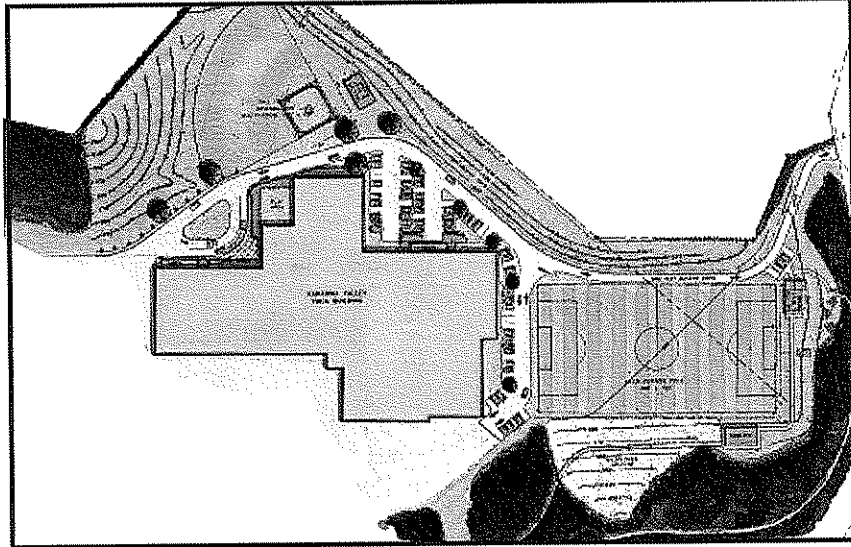
▶ **UPSHUR COUNTY PARK**

TERRADON prepared a recreational land use and site master plan to expand and upgrade the existing Upshur County Park. The site is located adjacent to Buchannon Upshur High School.

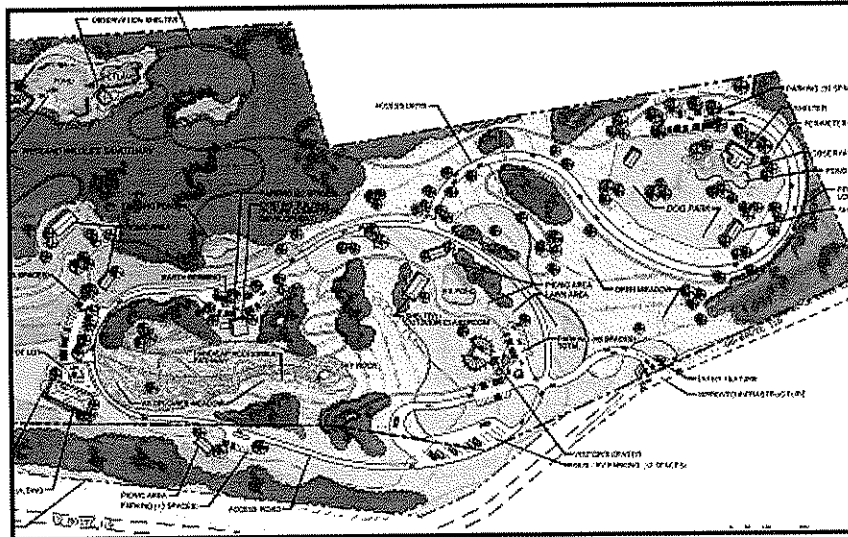


YMCA OF KANAWHA VALLEY - ATHLETIC FIELDS

TERRADON provided master planning through construction documents for the addition of athletic fields at the YMCA facility located on Hillcrest Drive in Charleston, West Virginia.



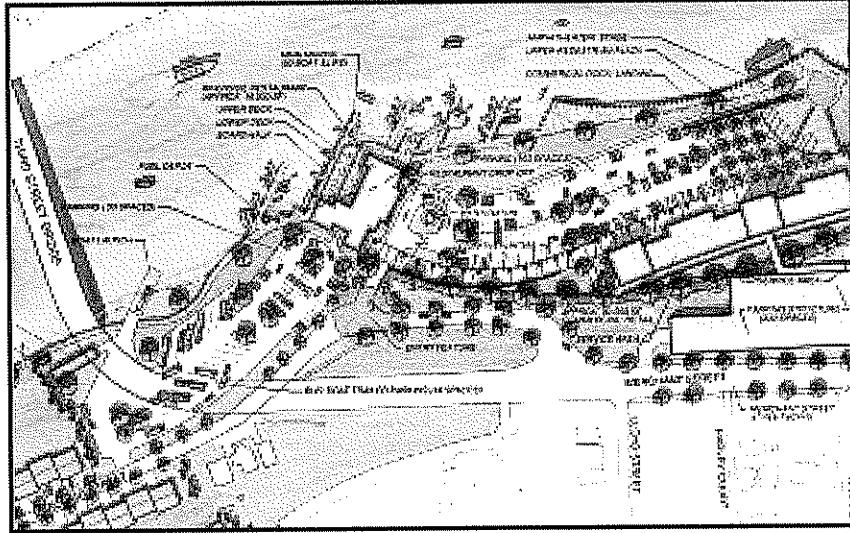
Dorsey's Knob Park and Visitors Center - Morgantown, West Virginia
 Terradon provided a site master plan for this multi-user facility. When completed the facility will provide recreation as well as a one-stop visitor center for the city, county, and West Virginia University visitors.



► **City of Fairmont Riverfront
Development Master Plan**

- Fairmont, West Virginia

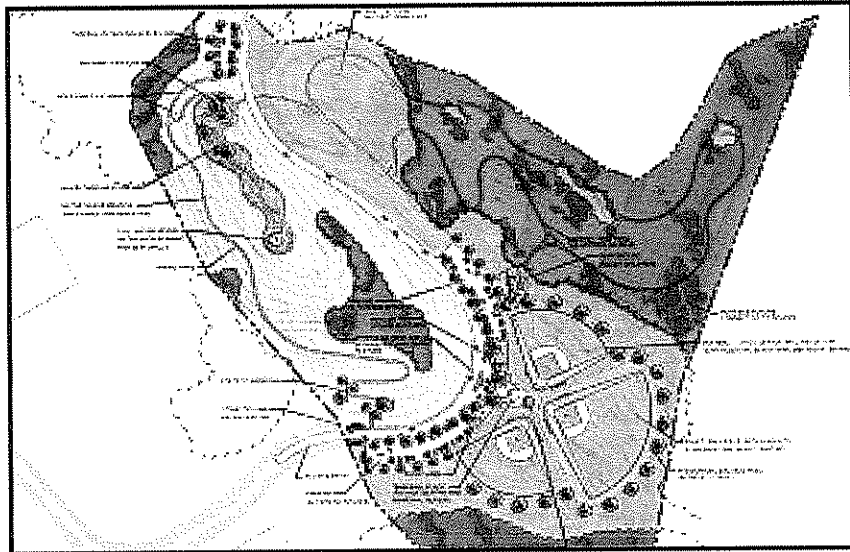
TERRADON provided a land use study and proposed land use master plan for this 30 acre development located on the Monongahela river in Fairmont, West Virginia. TERRADON was awarded an Engineering Excellence Award for this project by the West Virginia Association of Consulting Engineers in October 2002.



► **Roane County Park**

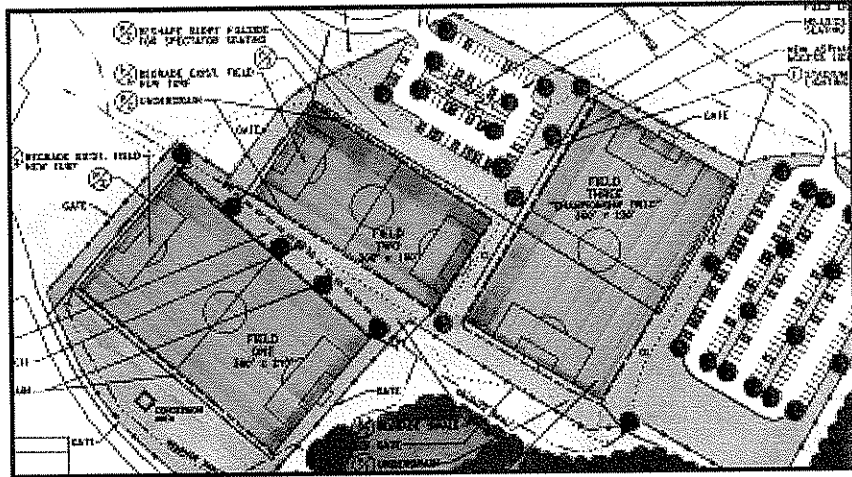
- Spencer, West Virginia

TERRADON provided master planning for this county park that includes a Civil War memorial, little league baseball complex, picnic areas, walking trails and public green space.



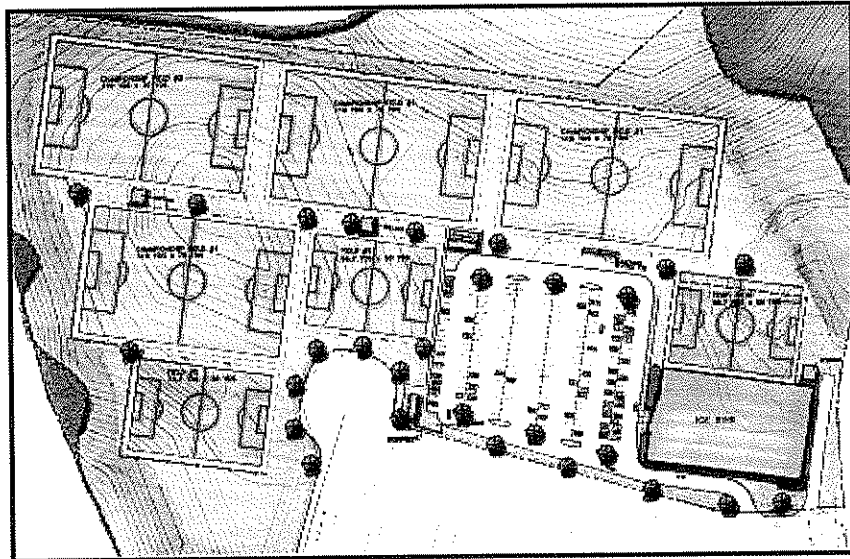
**FAYETTE COUNTY
YOUTH SOCCER COMPLEX**

TERRADON provided full service master planning, design and construction document preparation for a three-field soccer complex adjacent to Oak Hill High School for the Fayette County Youth Soccer Association.



**THE FIELDS AT TRACE
FORK**

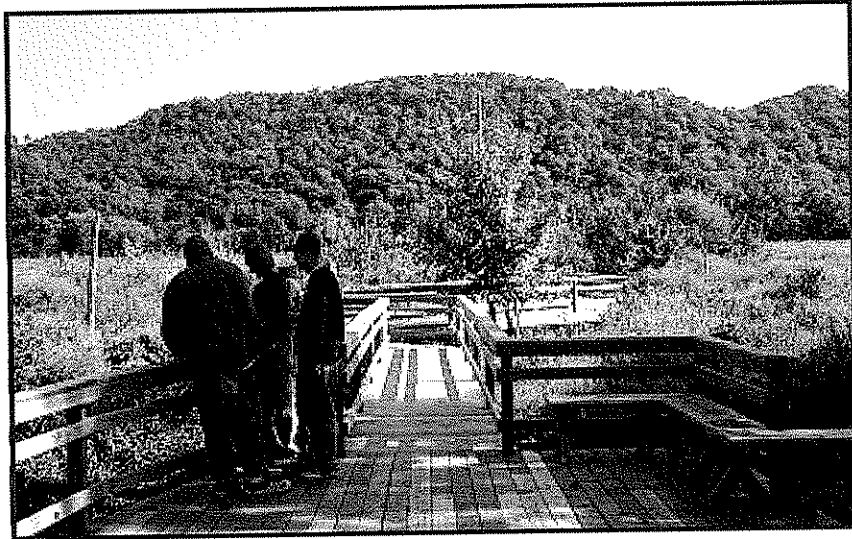
TERRADON provided schematic design, master planning and construction document preparation for a six-field soccer complex in South Charleston for the Kanawha Charleston Soccer Association. The facility will be located adjacent to the Memorial Ice Arena in the Trace Fork Development.



Wetlands of Winfield

- Winfield, West Virginia

TERRADON provided master planning through construction for this wetland education facility which includes such amenities as environmentally sensitive boardwalks and hiking trails, educational signage, and meeting platforms. TERRADON provided design-build services for the facility to Toyota Manufacturing and AEP who sponsored the project.

**HARVEYTOWN PARK**

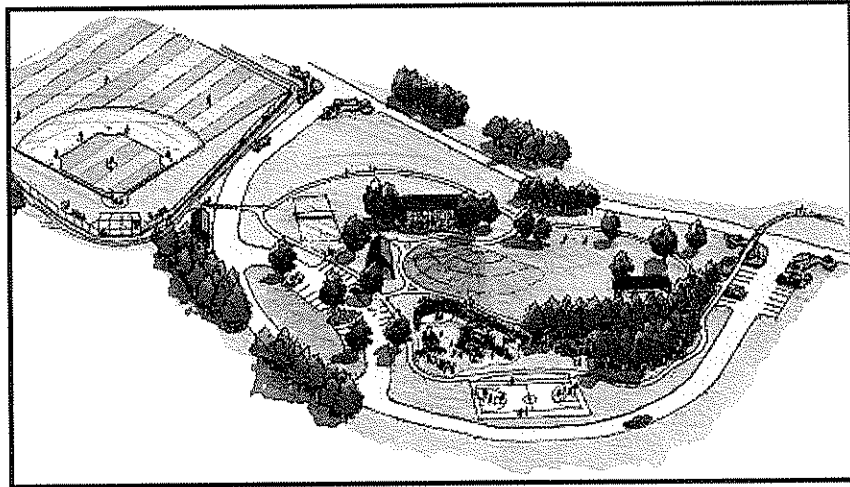
TERRADON provided site analysis, inventory mapping, master planning, and construction documents for a neighborhood park to the Greater Huntington Park and Recreation District. Phase I construction included this Picnic Shelter.



PROJECT EXPERIENCE

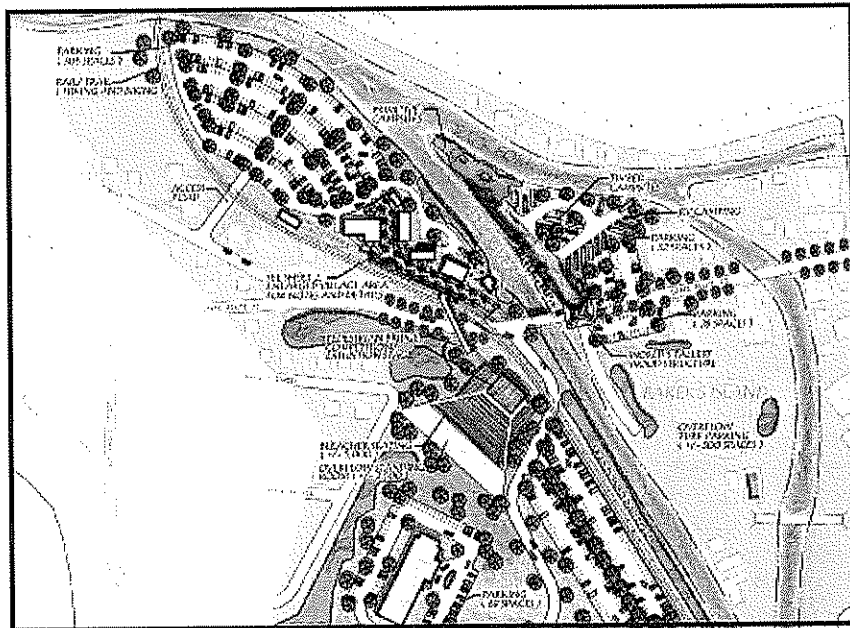
CURRY PARK

TERRADON prepared a master plan and recreational land use plan for 220 acres of undeveloped land. The site is located in Upshur County, West Virginia.



WOODCHOPPER'S VILLAGE

TERRADON developed a master plan and recreation feasibility study for the development of this lumberjack/woodchopper's themed recreation destination park. Project amenities include a woodchopping/lumberjack arena to be used for world championship chopping contests, timber industry educational exhibits, arts & crafts village, cultural and history museum, railroad attractions, rail trails, and fishing amenities.



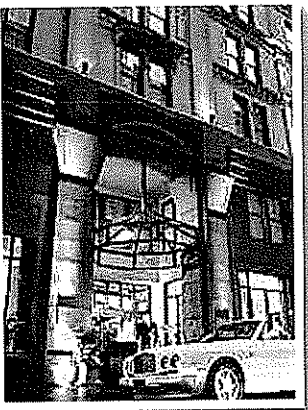
Project Experience

Tower Engineering has provided mechanical and electrical consulting engineering services for numerous hotel and motel projects, including the following:

- Best Western, State College, PA
- Cincinnati Hotel Restoration/Renovation, Cincinnati, OH
- Sheraton Inn, Holidaysburg, PA and Warrendale, PA
- Penn State's Nittany Lion Inn
- Days Inn, Akron, OH; Altoona, PA; Gettysburg, PA; Reading, PA; and York, PA
- Motel Six, Cranberry, PA
- Peak 'n Peek Resort, Clymer, NY
- Sheraton Station Square Hotel, PA
- DoubleTree Hotel, Pittsburgh, PA
- The Historical Book Cadillac Hotel, Detroit, MI (Design only)
- Twin Falls Resort, Mullens, WV

Tower Engineering has provided mechanical/electrical engineering services for new construction, renovations, and systems evaluations for the following Country Clubs:

- Treesdale Country Club
- Chartiers Country Club
- Lakeview Country Club
- Montour Country Club
- Rolling Hills Country Club
- Royal Ridge Country Club
- Seven Oaks Country Club



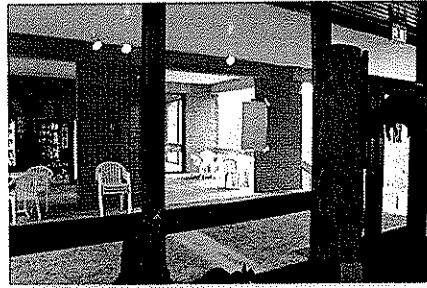
TOWER
ENGINEERING

115 Evergreen Heights Drive
Suite 400
Pittsburgh, Pennsylvania 15229
Phone (412)931-8888
Fax (412)939-2525

Hotels, Motels & Country Clubs

Project Experience

Twin Falls State Park
Lodge Expansion
Mullens, West Virginia



Tower Engineering is currently providing mechanical and electrical engineering services for the expansion of the Twin Falls State Park Lodge. Renovations will be made to the existing 30,000 s.f. structure. An addition of 46,000 s.f. will include:

- An additional 30 lodge rooms, including several suites
- Conference space
- A new indoor pool, spa and fitness center
- An elevator to resolve accessibility issues
- New Lodge Entrance

Total construction costs for this project are estimated at \$6 million. This project is currently in design.



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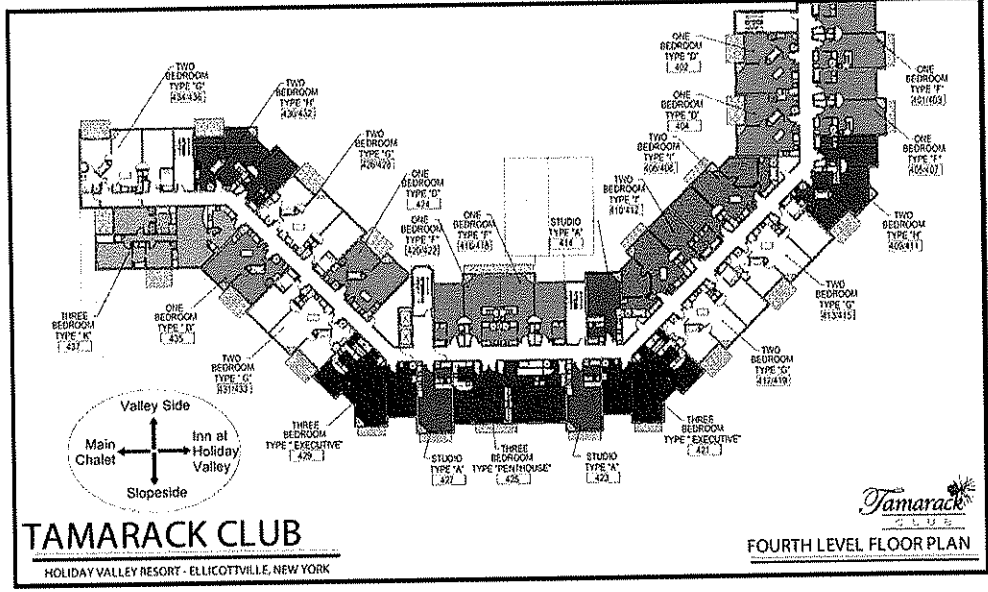
Community & Recreational Facilities

Project Experience

Holiday Valley Resort
 Tamarack Club
 Ellicottville, New York

Tower Engineering is currently providing mechanical/electrical engineering services for Holiday Valley Resort's new Tamarack Club. Once completed, this 163,000 s.f. building will include studio, one, two and three-bedroom condos, a heated indoor/outdoor pool, spa, fitness center, underground parking, and a restaurant and lounge.

Construction is scheduled to begin in Spring, 2008.



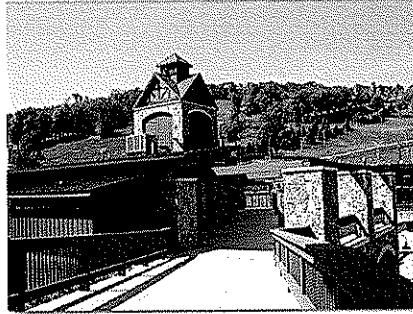
Lodging & Recreation

Owner:
 Sunrise Development Partners, LLC
 6557 Holiday Valley Road
 Ellicottville, NY 14731

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 ENGINEERING
 115 Evergreen Heights Drive
 Suite 400
 Pittsburgh, Pennsylvania 15229
 Phone (412)931-8888
 Fax (412)939-2525

Project Experience

Seven Springs Mountain Resort
Champion, Pennsylvania



Tower Engineering provided mechanical/electrical engineering services for the new \$4.7 million Skier Services Building at Seven Springs Mountain Resort. At this one-stop services center, guests can do everything from buy lift tickets to drop off the kids for ski/ride lessons. The new facility serves as the main resort arrival point and as a "bridge" connecting the existing conference/hotel functions with the existing ski lodge. Construction of this three-story, 35,000 s.f. building was part of a \$6.5 million expansion project and was planned and constructed between ski seasons to avoid disruption of resort activities.

Tower Engineering also provided electrical engineering services for the Southwinds at Lake Tahoe, a cooperative design-build project at the Resort. The overall project provided for a series of multi-level condominium units. Each of the seven buildings in the project was comprised of varying combinations of architecturally modular, typical floorplans. This project was completed in 2006.



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Lodging & Recreation

Project Experience

Peters Township Recreation Center McMurray, Pennsylvania

Tower Engineering provided mechanical/electrical consulting engineering services for this new \$5 million Recreation Center. The 30,000 s.f. indoor facility includes a suspended 1/10-mile track, exercise areas, concessions kitchen and conference room, enlarged TV screen and a portable stage for special events, multipurpose room with an adjacent kitchen, family restroom, and a double-size gymnasium with four basketball courts. Outdoor facilities include a multi-purpose court for basketball, soccer and deck hockey, as well as a new softball field.

The multipurpose spaces are designed with lighting and acoustics to accommodate performances, dances, and other community activities.

This project was completed in 2004.



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Community & Recreational Facilities

Project Experience

Pine Township Community Center Wexford, Pennsylvania

Tower Engineering is currently providing mechanical/electrical engineering services for this new 55,000 s.f. building. The first of two phases of construction will include a gymnasium which can be divided into two basketball or volleyball courts; a three-lane walking track around the outer edge of the gym; fitness areas and exercise rooms; a game lounge which will house computers, video games, plasma television, pool tables and a meeting area; and a community room that can be divided into two sections. Kitchen, administrative offices, meeting and multipurpose rooms and a daycare area will also be included.

Phase two of this project will include the construction of an aquatic center. Total construction costs for both phases of this project are estimated at \$9 million.



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Community & Recreational Facilities

Project Experience

Tower Engineering has designed mechanical and electrical systems for a wide variety of community and recreational facilities. Our past representative experience includes renovations, new construction and building systems evaluations for:

Bethel Park Community Center

Construction of this new Community Center was completed in 1999. At 18,100 s.f., the facility includes a large multi-purpose room with stage and serving kitchen for daily seniors lunch programs and community events of all sizes. The \$2.5 million facility incorporates many past and present unique characteristics and was envisioned to become Bethel Park's new town symbol.

Seven Springs Skier Services Building

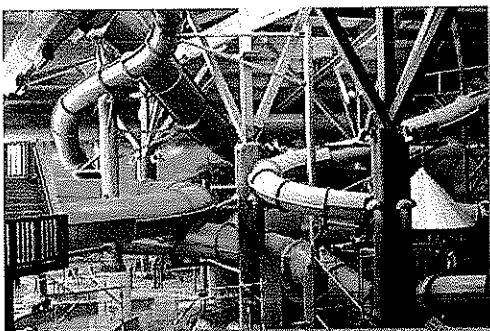
Part of a \$6.5 million improvement and expansion plan, the new Skier Services Building serves as the main resort arrival point and as a "bridge" connecting the existing conference/hotel functions with the existing ski lodge.

Ross Township Municipal Complex

This new two-story building complex will house the Ross Township Municipal Offices, Commissioners Meeting Room, Ross Township Police Department, Building Inspectors offices, Tax Collector/Treasurers office, and a new Community Center with a multi-purpose/banquet room, kitchen, stage, youth and adult lounges.

The Rose E. Schneider Family YMCA

Tower Engineering provided mechanical/electrical engineering services for a new 113,000 s.f. facility for the Southwest Butler County YMCA. This new \$7 million building will include a gymnasium, family natatorium with leisure/competition pool, locker rooms, teen center, community/multipurpose room, wellness center, exercise studios, and administrative spaces. This project was completed in 2006.



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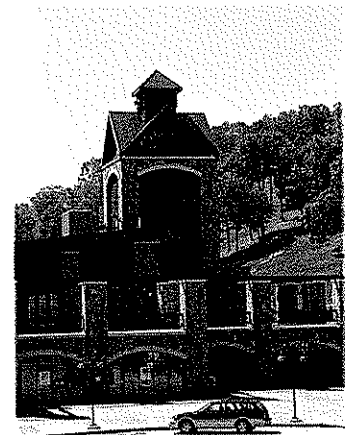
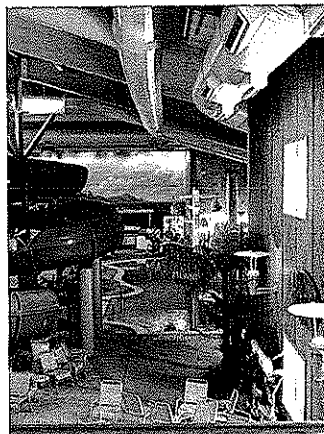
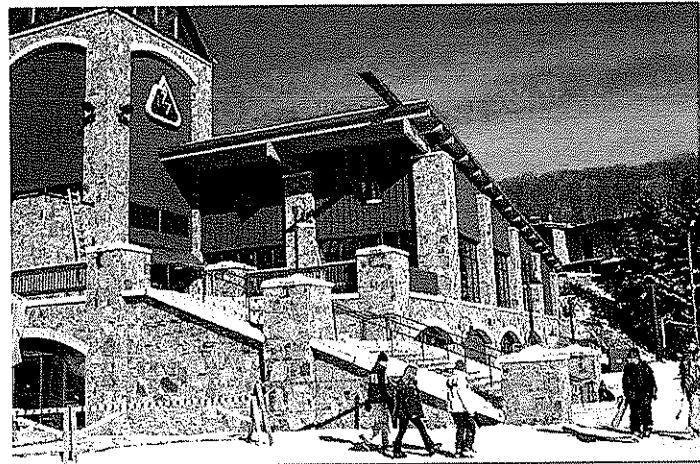
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Community & Recreational Facilities

Past Project Experience

- Alcoma Golf Club
- Ammon Recreation Center, City of Pittsburgh
- Beechwood Farms Nature Reserve, Audubon Society of W PA
- Beltzhoover Community Center, City of Pittsburgh
- Blue Water Lodge
- Bradford Ranger Building
- Chartiers Country Club
- Cherrington Golf & Country Club Banquet Facilities
- Cherry Grove Apartments Community Building
- Chief Logan State Park, WV
- Cranberry Municipal Building
- Erie Senior Citizen's Center
- Field Avenue Recreation Center, City of Pittsburgh
- Fox Chapel Jewish Center
- Fox Chapel Racquet Club
- Frick Nature Center
- Glenwood Racquet Club
- Green Tree Municipal Building
- Hampton Township Community Center
- Iceoplex at Southpoint
- Kennedy Township Park
- Lakeview Country Club
- Mellon Arena
- Monroeville Recreation Center
- Montour Heights Country Club
- Moose Club
- Mountaineer Lodge
- Northview Heights Recreation Center
- Peak 'N Peek, Clymer, New York
- Penn Hills Recreation Center
- Penn Township Municipal Complex
- Perry South Senior Citizens Center
- Peters Township Recreation Center
- Pine Township Recreation Center
- Pittsburgh Athletic Association
- Pittsburgh Children's Museum

- Pittsburgh Field Club
- Raccoon Creek State Park
- Rolling Hills Country Club
- Rose E. Schneider YMCA
- Ross Township Community Park
- Ross Township Municipal Building
- Scott's Splash Lagoon
- Seven Oaks Country Club
- Seven Springs Skier Services Building
- Sewickley Heights Golf Club
- South Charleston Community Center
- Upper St. Clair Community Rec Center





Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Glade Springs Hotel and Conference Center Daniels, WV



PROJECT ARCHITECT: Paradigm Architecture, Morgantown, WV
STRUCTURAL ENGINEER: Allegheny Design Services, Morgantown, WV
CONTRACTOR: Alliance Construction Management, Princeton, WV

PROJECT SCOPE:

- 40,000 Sq. Ft. Hotel Wing
- 12,000 Sq. Ft. Conference Center
- 2,000 Sq. Ft. Porte Coche

PROJECT VALUE: \$5 Million

PROJECT COMPLETION: 2005



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Waterfront Place Hotel & Conference Center



PROJECT ARCHITECT: Paul Walker, Paradigm Architecture, Morgantown, WV
STRUCTURAL ENGINEER: David Simpson of Allegheny Design Services, Morgantown, WV
OWNER: Platinum Properties, Inc.
CONTRACTOR: March-Westin Company, Inc., Morgantown, WV
STEEL FABRICATOR: Contracting Engineering Consultants, Morgantown, WV

PROJECT FEATURES:

- 17 story structural steel, deep foundations
- 300,000 sq. ft. facility
- Conference Center Wing

PROJECT VALUE: \$33 Million

PROJECT COMPLETION: 2003



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

West Virginia University Downtown Student Housing Morgantown, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

Paradigm Architecture, Morgantown, WV
Allegheny Design Services, Morgantown, WV
TEDCO Construction, Carnegie, PA

PROJECT SCOPE:

A five story, 90,000 square foot new student housing building will accommodate 360 residents. The design includes apartments for Resident Hall Coordinators and Resident Facility Leaders, a multi-purpose room, laundry facility, administrative offices, and space for fellowship advising, and honors college administration.

PROJECT VALUE: \$17.65 Million

PROJECT COMPLETION: Summer 2009

PROJECT PROFILE

Lakeside Physical Therapy Morgantown, WV



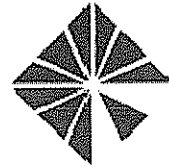
PROJECT ARCHITECT: Omni Associates, Fairmont, WV
STRUCTURAL ENGINEER: Allegheny Design Services, Morgantown, WV
CONTRACTOR: March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

- The First floor of the building houses Lakeside Physical Therapy. It is roughly 8,700 sq. ft. of offices, treatment rooms, a gym area with separate aerobic area, a hydrotherapy room, and an endless pool.
- The Second floor houses 5,000 sq. ft. of offices, treatment rooms, a cast room and an x-ray room.

PROJECT VALUE: \$1.4 Million

PROJECT COMPLETION: June 2006



EXECUTIVE SUMMARY

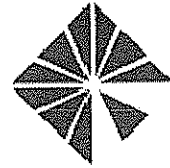
Waste Water Management, Inc. (WWM), headquartered in Falls Church, VA is a registered Small Business Entity (SBE #P0894363) professional services engineering corporation. David Rigby, P.E., founder and current President of WWM, has over 35 years of experience in the planning, design, construction, operation and financing of municipal, industrial and private water and wastewater piping, pumping and treatment systems. WWM typical scopes of services includes planning, existing facility analysis, operations assessments, engineering reports, preliminary engineering design, detailed engineering, bidding, contract document preparation, contract management, construction inspection, shop drawing review, start-up assistance, and as-built drawings. WWM is also internationally recognized for its experience in industrial process assessment and treatment design, and for its capabilities in forensic evaluation and expert testimony.

WWM is nationally recognized for its expertise in the analysis and design of complex hydraulic systems, industrial wastewater process evaluation, and treatment systems. WWM provides engineering, consulting, and design services throughout the mid-Atlantic region of the United States for all types of water and wastewater system needs including operation and maintenance performance assessments, asset management, facility upgrades, new utility development, financial planning, grant and loan management and environmental permitting. WWM is internationally recognized for its expertise in the fields of environmental policy development, industrial waste management and regionalization, waste minimization, and the application of appropriate technologies.

WWM has successfully completed over 200 major wastewater treatment design and construction projects, and we developed the first project funded through the EPA Construction Grants Program in the 1970s. WWM is also known for its expertise in the analysis and design of complex hydraulic and pumping systems for water, sewage, stormwater and industrial process water applications. At any time, WWM may have as many as 20 pumping projects on its active project list. For the past 35 years, WWM and its team of engineers have designed over 500 major pumping projects throughout the United States. WWM's principal, David Rigby, is a long standing adjunct professor of graduate environmental and civil engineering studies at The George Washington University in Washington, DC. Among his teaching assignments is Advanced Sanitary Engineering Design which he commonly refers to as "Applied Fluid Mechanics" and / or "Pumping System Hydraulics". In that course, Mr. Rigby teaches the three governing equations for closed pipe hydraulics being "Continuity", "Energy", and "Momentum". He also teaches single and parallel force main hydraulics, multiple and variable speed pumping applications, design of water booster stations, cavitation and its causes and techniques for mitigation, ground and elevated water storage tank siting criteria, hydropneumatic tank sizing, gravity sanitary and storm sewer design, and inverted siphon design.

EXECUTIVE HIGHLIGHTS

- ◆ Completion of over 150 major water and wastewater design projects for municipalities.
- ◆ Completion of over 300 major water and wastewater design projects for industrial, commercial, and residential clients.
- ◆ Planned numerous new town, city, and country-wide water and sewer projects, including treatment.
- ◆ Responsible for the design and project management of the first project ever funded by The Environmental Protection Agency's "Construction Grants Program" in the United States.
- ◆ Designed the 266 MGD Edmonston Stormwater Pumping Station project featured in the Washington Post and currently nominated for the ASCE national design award of excellence.
- ◆ Designed hundreds of miles of water and sewer lines with experience ranging in size from 4" – 60" diameter.
- ◆ Strong history of working with municipalities including the City of Roanoke (60 MGD). Kit Kiser, Director of Public Works, and Charlie Huffine, City Engineer, would openly say, "we turn to you for all the hard (treatment and pumping) projects."



COMPANY PROFILE

The key to successful project execution is having the right people for the job, organized in a structure to maximize responsiveness. WWM offers extensive in-house expertise and principal level expert consultation services. Our team allows us to call on a broad spectrum of expert services without being burdened by the overhead associated with that expertise. WWM can offer full services for the rehabilitation and capacity analysis of the existing McLean Pumping Station.

WWM employs the following engineering staff, all of which have worked extensively across the state of Virginia:

- ◆ David J. Rigby, PE – Sanitary, Hydraulic, Process, Mechanical, Value Engineering, Licensed Wastewater Operator; 35+ years
- ◆ David Hanna, PE – Pumping System Hydraulics, Quality Assurance and Control; 35+ years
- ◆ Mike Rossi, PE – Hydraulics, Piping, Water Treatment, Project Management; 15+ years
- ◆ Huy Nguyen – Hydraulic and Mechanical Engineering; 10+ years
- ◆ Arbina Shrestha – Sanitary and Environmental Engineering, 8+ years
- ◆ Nick Valcourt – Process and Project Engineering, 1+ years

WWM's project managers and design engineers hold degrees in their field of expertise, are professionally licensed or in the process of becoming licensed, experienced, and well qualified. WWM's engineering staff is proficient in AutoCAD 2006, AutoCAD Civil 3D, Haested Methods WaterCAD, ArcGIS, EPANET 2.0, EPA SWMM 5.0, and Microsoft Office applications. Additionally, WWM maintains a continually updated database of hydraulic, structural, and civil programs which have been written by in-house staff. These programs are based on accepted design standards, industry practices, and engineering experience. All of these technical tools are enhanced by the individual principal and senior level engineers' extensive experience gained throughout their careers.

PROJECT EXPERIENCE

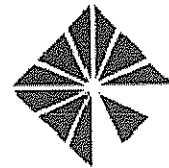
In May 1979, our very first project was the Town of Fincastle, VA wastewater treatment plant and collection system. That system employed a Hinde diffused lagoon aeration system with a rated capacity of 75,000 gpd. In 2004, the Town turned again to us to assist in the upgrade and expansion of the wastewater treatment plant to 130,000 gpd. WWM and its President bring the experience of more than 100 domestic wastewater treatment plants and more than 80 industrial wastewater treatment plants to the project. In addition to the planning, design, and construction management project experience, WWM and its President have extensive hands on experience in both construction and treatment plant operations. As a licensed General Contractor Class A and Water and Wastewater Operator Class I, WWM brings to the project a comprehensive package of professional capabilities unparalleled in the industry.

WWM is a recognized leader in the design of municipal and industrial water and wastewater treatment plants and pumping stations with extensive experience in the preparation of preliminary assessments and reports, budget cost estimates, final engineering documents, and in the performance of construction phase activities.

From the influent piping through the treatment or pumping facilities and out to the discharge point, WWM views a water or wastewater treatment plant or pumping station as a complete system not just an assemblage of the individual parts. WWM also has expertise in water distribution system analysis, mechanical sewer design and electrical and SCADA control design and can select and integrate all the proper components into an overall operating system. WWM's staff of degreed and licensed engineers are highly capable of developing physical, chemical and biological process designs to meet specific permit requirements and for the subsequent selection of the most appropriate, efficient and economical equipment.

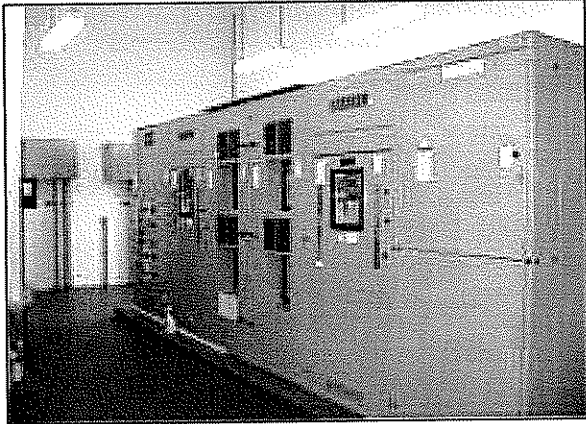


Due to its extensive hands on construction and operations experience WWM designs are easily constructed and are as maintenance free and operationally straight forward as possible. WWM designed facilities are accessible and well lit, easy to clean and maintain, making emergency repairs easier to perform. WWM has expertise with constant speed and variable speed controllers, flow metering, and SCADA. WWM's design engineers work seamlessly with its core



electrical power and structural engineering sub-consultants in order to design treatment plants stations and pump stations that are reliable, cost efficient, and aesthetically pleasing.

WWM has completed numerous projects for the Prince William County Service Authority and has a close relationship with its Engineering and Operations Department. Working with the Service Authority, WWM has developed the Service Authority's standard large flow pump stations. These pump stations include a monolithic comminutor vault / wet well / meter vault structure with associated control building, emergency generator, SCADA, and future provisions for odor control equipment.



WWM employs professional engineers and scientists in the fields of hydraulic engineering and advanced wastewater treatment process engineering. WWM has developed expertise with the use of computer hydraulic models and has generated numerous models for municipal water distribution systems and for municipal wastewater treatment plants. WWM utilizes computerized hydraulic modeling to analyze the interaction of multiple pumping stations tied into common force mains. Software that WWM uses includes Haestad Methods WaterCAD and EPANET 2.0. WWM also uses SWMM to model gravity sewer systems and BioWin to model wastewater treatment plant performance.

Wastewater Treatment Plants

Town of Montross, Westmoreland County VA
 City of Danville, Danville VA
 Town of Chincoteague, Accomack County, VA
 Town of Hamilton, Loudoun County, VA
 Town of Fincastle, Botetourt County, VA
 Gesher Jewish Day School, Fairfax County VA
 Evergreen Country Club, Prince William County VA
 Warrenton Chase, Fauquier County, VA
 Widewater, Stafford County, VA

Sewage Pumping Facilities

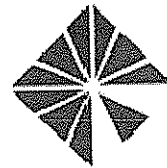
Timber Truss, Orange County, VA
 Stafford Commerce Park, Stafford County, VA
 Rappahanock Landing, Stafford County, VA
 Cabin Run, Prince William County, VA
 Mayfield Trace, Prince William County, VA
 Belmont, Loudoun County, VA
 Cedarcrest, Loudoun County, VA
 Gunston Commerce, Fairfax County, VA
 Lorton, Fairfax County, VA

Water and Sewer Systems

Potomac Crossing, Westmoreland County, VA
 Town of Chincoteague, Accomack County, VA
 Botetourt County VA Comprehensive Water and Sewer systems
 Town of Hamilton, 50 Year Water and Sewer Master Plan
 Town of Kilmarnock, VA, Water and Sewer Master Plan
 Town of Purcellville, VA, Sewer Master Plan

Water Storage Tanks, Main Replacements/Extensions, and Treatment Plants

Lovettsville Development Partners, Loudoun County, VA
 Hamilton, Loudoun County, VA
 Ladysmith, Caroline County, VA
 Lovettsville Retirement Village, Loudoun County, VA



Town of Hamilton, VA

Stormwater Pumping Facilities

Edmonston, Prince George's County, MD

Construction Administration

Route 20 Sewer, Orange County, VA
 Warrenton Chase WWTP, Fauquier County VA
 Hamilton Water System, Loudoun County, VA
 Hamilton / Loudoun Sewer Extension Project, Loudoun County, VA
 Mountain Vernon Ladies Association of the Union, Fairfax County, VA

Water System Modeling

Town of Colonial Beach, Westmoreland County, VA
 Town of Hamilton, Loudoun County, VA
 Town of Lovettsville, Loudoun County, VA

WARRENTON CHASE TREATMENT PLANT (WWTP) AND SUBSURFACE DISCHARGE

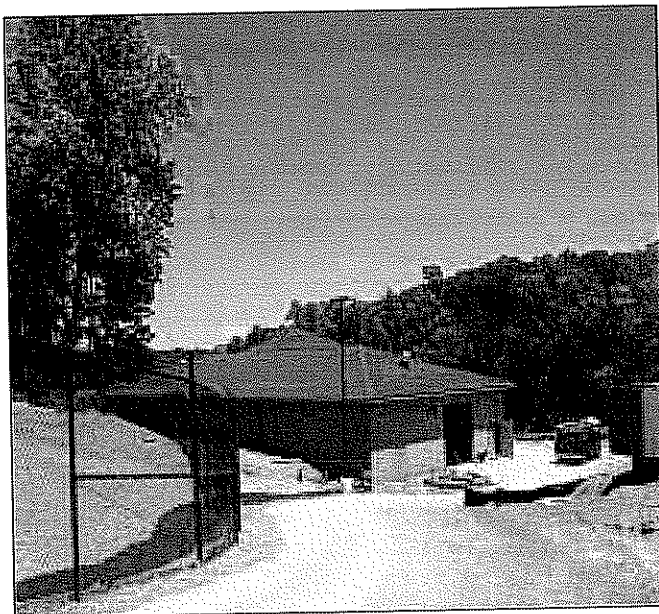
Fauquier County, Virginia

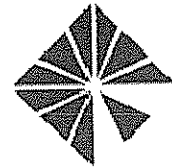
Project Highlights

- 60,000 gpd WWTP
- 7.5 acres of drainfields with monitoring wells and drip system tubing
- Lakeside Screen and grit removal
- Aqua Aerobic Dual train SBR system w/ pre- and post-equalization
- Aerobic digester
- Dynasand tertiary filters
- 24 hour emergency effluent storage
- Goulds disposal field dosing pumps
- American Manufacturing disc filtration unit
- 400 kw Standby Generator (also serves adjacent water booster station facility)

Project Description

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, structural, and electrical engineering design services for the wastewater treatment plant (WWTP) at Warrenton Chase, a residential development composed of 150 single family homes. The WWTP is enclosed inside a CMU block building covering 6,000 sf. The treatment process begins with a screenings and grit removal system that drains into a pre-equalization basin. The flow is then pumped into a dual Sequencing Batch Reactor (SBR) that either pumps mixed liquor to an aerobic digester or decants to a post-equalization tank. The treated effluent in the post-eq tank is pumped through sand filters and a UV disinfection system before being stored in dual underground tanks which provide 24 hours of emergency storage in case of any drainfield disposal issues. These tanks drain to a duplex submersible disposal field dosing pump station. Effluent is pumped through a final disc filtration unit before discharging to a 32 field network of drainfields using ½ inch polyethylene dripper tubing to distribute the final effluent over 7.5 acres. The site was constructed with expandability for a methanol building in case of stricter nutrient limits in the future. Construction cost was approximately \$5.8 million.





Project References

Owner

Toll Brothers Inc.
43089 Ryan Road, Suite 101
Ashburn, VA 20148
(703) 729-0951
Contact: Jon Cannizzo, P.E.

Regulatory Agency

Fauquier County Water and Sanitation Authority
7172 Kennedy Road
Warrenton, VA 20187-1646
(540) 349-2092
Contact: Wayne Stephens, P.E.

BEL ALTON

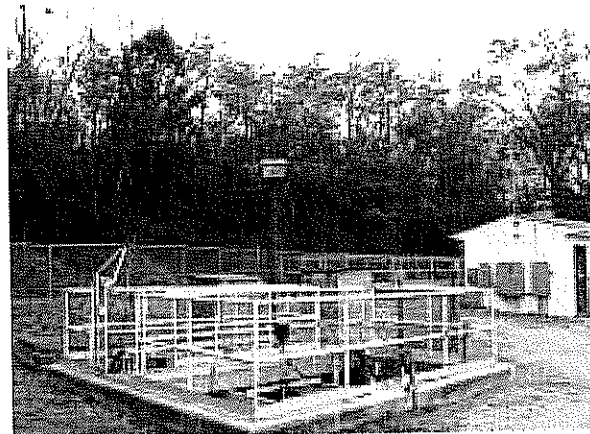
Charles County, Maryland

Project Reference

JLW Associates
23464 Hollywood Road
Leonardtown, MD 20650
Contact: Michael Baker, Vice President
Telephone: (301) 475-5747

Project Description

WWM and JLW are currently working in a Design/Build team arrangement on the Charles County MD "Bel Alton Wastewater Treatment Plant Improvements" project. This small project is being upgraded in response to the Chesapeake Bay Nutrient Reduction Program and involves maintaining full operating capability of the existing wastewater treatment plant during the construction of the new facilities. The 30% design submittal is in the final stages of review by the Maryland Department of the Environment. Construction completion is scheduled for spring 2009.



WIDEWATER

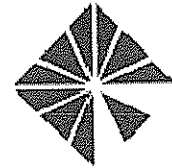
Stafford County, Maryland

Project Highlights

- Influent equalization control and pumping system
- Four state aerobic – anoxic reactor
- Aerobic sludge digestion and thickening
- Chemical feed systems
- LEED certified laboratory and control building
- SCADA system integration

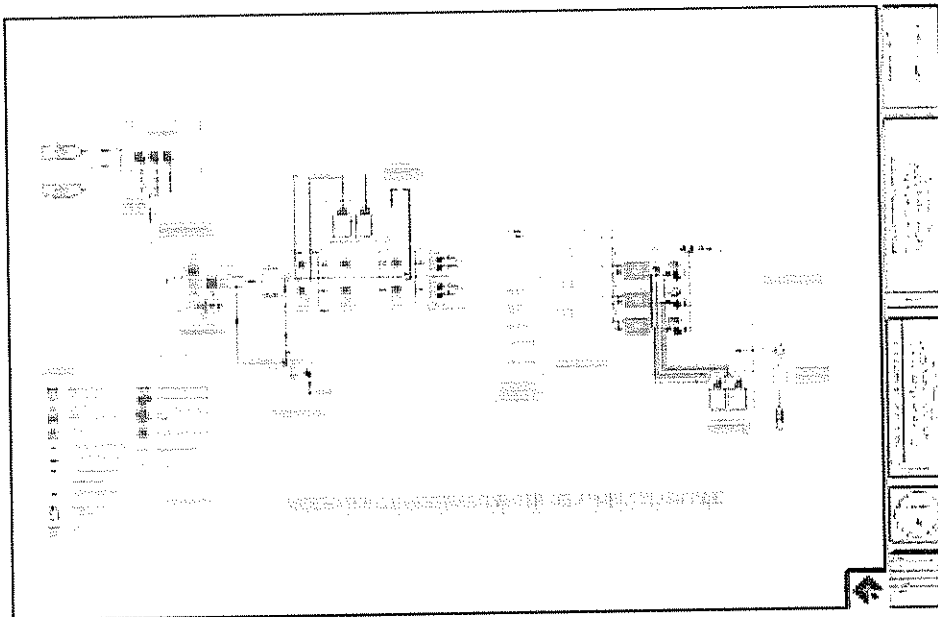
Project Description

The Wadewater wastewater treatment is planned to serve the "Wadewater Magisterial District" in accordance with the Stafford County, VA Comprehensive Plan. Originally controlled by the Maryland Department of the Environment it was permitted for an initial flow of 0.50 MDG with expansion to 2.20 MGD. Following an



agreement between the states of Maryland and Virginia, the project now carries a Virginia Pollutant Discharge Elimination System (VPDES) permit issued by the Virginia Department of Environmental Quality. In response to the recently adopted Chesapeake Bay Nutrient Reduction Strategy the permit has been amended to include limits on Nitrogen (3.0 mg/l) and Phosphorous (0.14 mg/l).

Originally proposed as a Sequencing Batch Reactor (SBR) process, recent improvements in membrane bioreactor (MBR) technologies and economics, the proposed project will include an influent equalization control and pumping system, a four stage aerobic - anoxic reactor utilizing low energy high oxygen transfer hyperbolic disc mix air systems for denitrification, an external MBR equipment package, ultraviolet disinfection, aerobic sludge digestion and thickening, chemical feed systems, a LEED certified laboratory and control building, and a SCADA system integrated into the local utility communications program. The initial design submission will be in November 2008.



TOWN ENGINEER FOR THE TOWN OF HAMILTON, VIRGINIA

Town of Hamilton, Virginia

Project Description

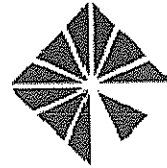
WWM has served as the Town Engineer for over ten years and completed numerous critical infrastructure projects related to the Town of Hamilton's water and sewer systems.

Water Treatment Plant

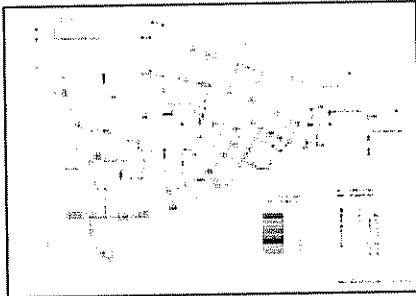
Waste Water Management, Inc. was retained by the Town of Hamilton, Virginia to design a new water treatment plant to serve a new Loudoun County elementary school. Recognizing the need to replace the Town's aging distributed system of groundwater treatment plants and to fully utilize a new high yield well, Waste Water Management, Inc. sized the plant at 400 gpm, which is enough to supply the entire Town. The plant incorporates raw water storage, greensand filtration, disinfection, finished water storage, and distribution pumping systems. A laboratory and storage facilities are also provided. Waste Water Management, Inc. incorporated the new 6500' raw water pipeline into the Town's hydraulic network model.

Project Highlights

- Two greensand filters 200 gpm each
- 50,000 gallon raw water storage tank
- 200,000 gallon finished water storage tank
- Filter pumps 400 gpm @ 97'

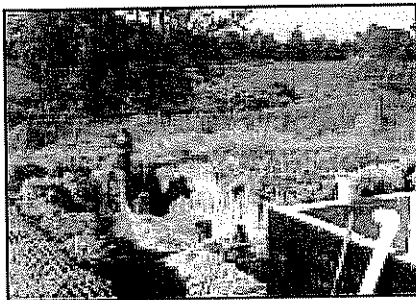


- Distribution pumps 500 gpm @168'
- Chemical Feed Systems
- 300 kw emergency generator
- SCADA



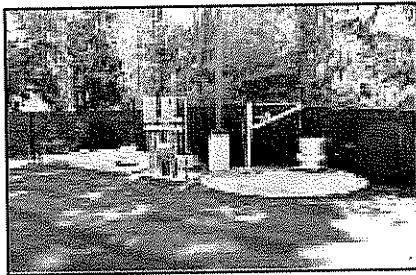
Water Distribution System Model

As a part of the Town's water system upgrade, a hydraulic and water quality model of the Town's water distribution network was developed. The model was developed using AutoCAD and Haestad Methods WaterCAD. Field determination of friction factors was performed at various locations to calibrate the model, which is now used successfully in the optimal selection of waterline replacement projects. It has also been used to determine the effects of taking various wells out of service.



Stone Eden Well (Well 14)

WWM developed, designed, and coordinated the permitting of the Town's new Stone Eden Well (Well #14). The well is a high yield well designed to replace the Town's aging distributed system of wells. The project is a part of the Town of Hamilton's Water System Improvements as conceptualized in the Town of Hamilton Water System Preliminary Planning Report, also prepared by WWM.



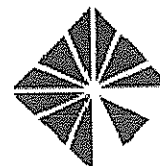
Harmony Sewage Pump and Water Booster Stations

WWM designed the Harmony Intermediate School Sewage Pump Station and Water Booster Stations to serve the new Harmony Middle School and growing western part of the town. The sewage pump station incorporates precast wet well and valve vault structures, ventilation fans, outdoor lighting, and a precast concrete control building. The control system for these stations provides the groundwork for the Town's upcoming SCADA conversion project.

Project Reference

Town of Hamilton, Virginia
53 East Colonial Highway
Hamilton, Virginia 20159

Contacts: Past Mayor Keith Reasoner
(540) 338-2811
Email: kreasoner@aol.com

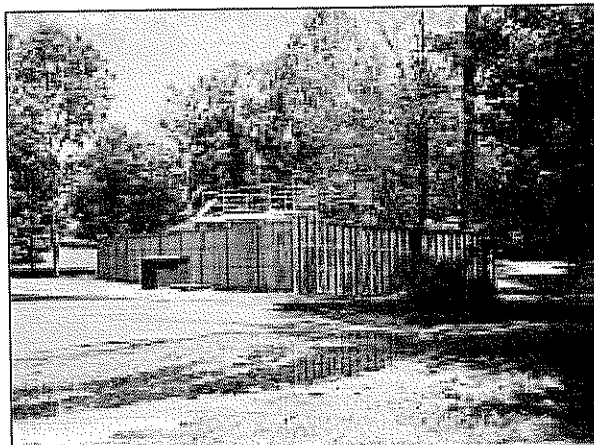


EVERGREEN COUNTRY CLUB WASTEWATER TREATMENT PLANT

Prince William County, Virginia

Project Highlights

- 7,500 gpd Dual Train CSBR with Sludge Holding Tank
- Tertiary Filtration with Sand Media
- PLC Controls for Automated Cycle Timing
- UV Disinfection
- 50 KW Standby Generator
- Enclosure for chemical feed and onsite lab equipment
- E-One Package Duplex Grinder Station
- 1-1/2" flowmeter



Project Description

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, structural, and electrical engineering design services for Evergreen Country Club Golf Course.

The 7,500 gpd station consists of an influent grinder pump station, dual train Continuous Sequencing Batch Reactor (CSBR) with a sludge holding tank, sand filtration, UV disinfection, and post aeration before discharging to a receiving stream of the Potomac River. The biological system first treats for removal of nitrogen, solids and organics with coarse bubble diffused air. The effluent is decanted into tertiary sand filters which act as a second barrier to remove solid contaminants. Final treatment involves disinfection with UV light and post aeration to meet State regulations for dissolved oxygen concentration. A programmable logic controller (PLC) was installed for controlling the system.

Owner

Evergreen Country Club
15900 Berkeley Drive
Haymarket, Virginia 20169
(703) 754-4778

Contact: Dave Anderson

Equipment Supplier

Kappe Associates
P.O. Box 7986
Charlottesville, VA 22906
(434) 985-7090

Contact: George Long

Regulatory Agency

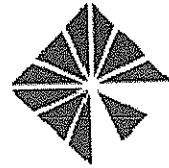
Virginia Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, Virginia 22193
(703) 583-3903

LOVETTSVILLE WATER SYSTEM

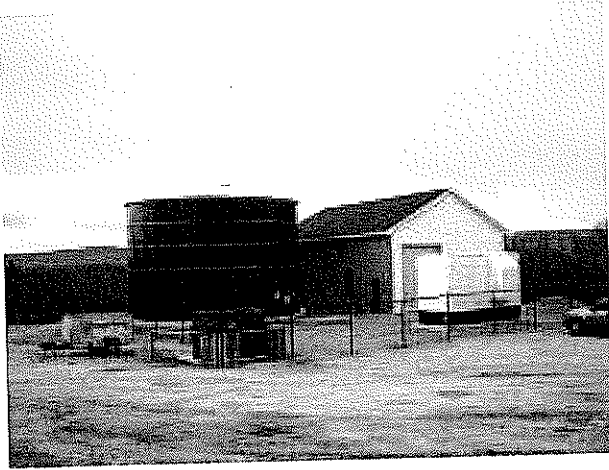
Loudoun County, Virginia

Project Highlights

- Water Main Extension – 13,000' of 8" and 6" main
- 400 gpm Water Treatment Plant with iron and manganese removal
- 300 gpm Water Treatment Plant with iron and manganese removal



- 158,000 gallon water storage tank
- Backwash pump station and force main
- Design of SCADA system



Project Description

Waste Water Management, Inc. was the Engineer on a variety of public and private water system projects for the Town of Lovettsville, Virginia. A complete hydraulic analysis of the Town's existing distribution system was performed using Haestad Methods WaterCAD. Areas of substandard pressure were identified and the distribution systems serving subsequent developments were designed to remedy this. Two potable water treatment plants with filtration, chlorination, and storage tanks were designed to serve development. A new SCADA system was designed to monitor the Town's existing and new facilities. Cost of water plants was approximately \$2.5 million.

Clients

JGS Residential, LLC
5126 Harford Road
Baltimore, Maryland 21214
(410) 426-5000

Contact: Jim Sakellaris

Town of Lovettsville, Virginia
6 East Pennsylvania Avenue
Lovettsville, Virginia 20180
(540) 822-5788

Contact: Mayor Elaine Walker

Contractor

Structures and Utilities
3381 Torrey Pines Circle
Riner, Virginia 24149
(540) 382-3967

Contact: Dewey Lusk

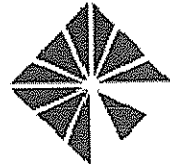
GESHER JEWISH DAY SCHOOL ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

Fairfax County, Virginia

Project Highlights

- 3,000 gpd CSBR train (6,000 gpd future)
- 7,000 gallon influent septic tank
- 13' deep wet well with duplex submersible grinder pumps rated at 25 gpm
- Valve vault with 2" flowmeter
- Weathershed for controls including PLC and Autodialer system for alarm conditions
- Discharge to drainfields with 5,972 gpd capacity (2 sites)
- Privacy slat fencing



**Project Description**

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, architectural, structural, and electrical engineering design services for Gesher, the first Jewish Day School to open in Northern Virginia. The 3,000 gpd station consists of an influent pump station, septic tank and a single train Continuous Sequencing Batch Reactor (CSBR). At an undetermined time in the future, the system will be upgraded to 6,000 gpd capacity by installing a second train CSBR unit. The CSBR receives flow from the septic tank continuously during its biological treatment process to remove total nitrogen to a discharge limit of 7 mg/l. When the School is in use, the process train discharges to the drainfield. When the School is not in use such as during weekends, holidays and nights, the system recycles the effluent to the septic tank which serves as a food source during these periods. A programmable logic controller (PLC) was installed to control the cycle times and to control the discharge to each drainfield. An autodialer alarm was provided to notify the operator of any alarm conditions. Due to the proximity of the site to the School, privacy slat fencing was installed at the request of the Owner.

Owner's Representative

RMK Enterprises, LLC
3819 Prince William Drive
Fairfax, VA 22031
(703) 764-9399

Contact: Ron Katz

Regulatory Agency

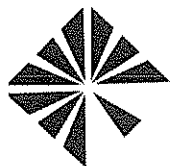
Fairfax County Division of Environmental Health
Onsite Sewage & Water Section
10777 Main Street
Fairfax, Virginia 22030
(703) 246-8463

Contact: Marty Shannon

General Contractor

Scott-Long Construction, Inc.
14170 Newbrook Drive
Chantilly, Virginia 20151
(703) 802-7617

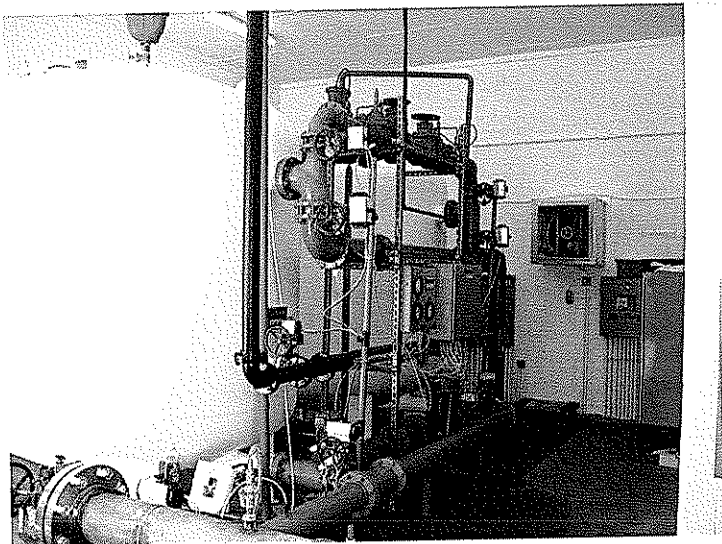
Contact: Brett Miller



WASTE WATER MANAGEMENT, INC.

2815 HARTLAND ROAD, SUITE 210 • FALLS CHURCH, VIRGINIA 22043 • 703-846-0098 • FAX: 703-846-0357

Lovettsville Retirement Village Loudoun County, Virginia



Project Highlights

- 300 gpm water treatment plant with iron and manganese removal filters
- 158,000 gallon finished water storage tank
- 300 gpm seven stage vertical turbine well pump
- Triplex skid mounted booster pumps each rate at 500 gpm @ 260' TDH
- 12' diameter 19' deep backwash equalization tank with duplex submersible pumps
- SCADA system per LCSA standards

Clients

US Home Corporation, Inc.
3554 Chain Bridge Road, Suite 100
Fairfax, VA 22030
(703) 359-6200

Contact: Don Fink

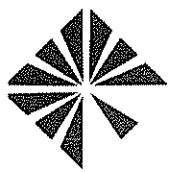
Contractor

Structures and Utilities
3381 Torrey Pines Circle
Riner, Virginia 24149
(540) 382-3967

Contact: Dewey Lusk

Project Description

Waste Water Management, Inc. was the Engineer on a variety of public and private water system projects for the Town of Lovettsville, Virginia. A complete hydraulic analysis of the Town's existing distribution system was performed using Haestad Methods WaterCAD. Areas of substandard pressure were identified and the distribution systems serving subsequent developments were designed to remedy this. Two potable water treatment plants with filtration, chlorination, and storage tanks were designed to serve development. A new SCADA system was designed to monitor the Town's existing and new facilities. Cost of water plants was approximately \$2.5 million.



**Town of Hamilton
Water Treatment Plant
Loudoun County, Virginia**



Project Highlights

- Two iron and manganese removal filters 200 gpm each
- 50,000 gallon raw water storage tank
- 200,000 gallon finished water storage tank
- Filter pumps 400 gpm @ 97'
- Distribution pumps 500 gpm @ 168'
- Chemical Feed Systems
- 300 kw emergency generator
- SCADA

Client / Owner

Town of Hamilton, Virginia
53 East Colonial Highway
Hamilton, Virginia 20159
(540) 338-2811

*Contact: Past Mayor Keith Reasoner
Mayor Ray Whitbey*

Contractor

Patterson Construction Company, Inc.
12315 McClain Street
Fredericksburg, Virginia 22407
(540) 338-2811

Contact: Jim Patterson

Project Description

Waste Water Management, Inc. was retained by the Town of Hamilton, Virginia to design a new water treatment plant to serve a new Loudoun County elementary school. Recognizing the need to replace the Town's aging distributed system of groundwater treatment plants and to fully utilize a new high yield well, Waste Water Management, Inc. sized the plant at 400 gpm, which is enough to supply the entire Town. The plant incorporates raw water storage, greensand filtration, disinfection, finished water storage, and distribution pumping systems. A laboratory and storage facilities are also provided. Waste Water Management, Inc. incorporated the new 6500' raw water pipeline into the Town's hydraulic network model.